

The present sequence represents a human TANGO 266 polypeptide. The specification also describes TANGO 262, TANGO 216, TANGO 261, and TANGO 267. The TANGO polypeptides can be used to modulate cellular proliferation, modulate cellular differentiation and/or modulate cellular adhesion. The proteins can be used to treat any von Willebrand factor-associated disorder, regulate extracellular matrix structuring, cellular adhesion, and cell trafficking and/or migration, modulate cellular interactions, modulate cell adhesion in proliferative disorders, such as cancer, modulate the proliferation, differentiation, and/or function of cells that appear in the bone marrow, and leukocytes, treat bone marrow, blood and hematopoietic associated diseases and disorders, atelectasis, pulmonary congestion or oedema, emphysema, chronic bronchitis, bronchial asthma and bronchiectasis, intestinal disorders, spleen associated diseases, modulate renal disorders, treat cardiovascular disorders such as ischemic heart disease, modulate the proliferation, differentiation, and/or function of bone and cartilage cells and to treat bone and/or cartilage associated diseases or disorder. They may also be used to treat

Query Match		100.0%;	Score 589;	DB 4;	Length 105;				
Best Local Similarity		100.0%;	Pred. No. 3.3e-54;	Indels 0;	Gaps 0;				
Matches 105;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;				
QY	1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEEC 60								
Db	1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEEC 60								
QY	61 HPGSHKVPFFFRKRKHHTCPCLPNLLCSRFPDGRYRCSDMLKNINF 105								
Db	61 HPGSHKVPFFFRKRKHHTCPCLPNLLCSRFPDGRYRCSDMLKNINF 105								
RESULT 4									
ID	AAU12406	standard; protein; 105 AA.							
AC	AAU12406;								
XX	XX								
DT	23-JUL-2001	(first entry)							
XX	XX								
DE	Amino acid sequence of a human Zven2 polypeptide.								
XX	XX								
KW	Zven1; 3p21.1; 3p14.3; Zven2; small cell lung cancer; wound healing;								
KW	antitumour; antiinflammatory; necrosis; tissue growth; digestive enzyme;								
KW	cellular differentiation; gastrointestinal cell contractility;								
KW	gastrointestinal motility; inflammation; hypermotility; diarrhoea;								
KW	Crohn's disease.								
XX	XX								
OS	Homo sapiens.								
XX	XX								
PN	WO200136465-A2.								
XX	XX								
PD	25-MAY-2001.								
XX	XX								
PF	14-NOV-2000; 2000WO-US031278.								
XX	XX								
PR	16-NOV-1999; 9SUS-00442164.								
PR	25-FEB-2000; 2000US-00511879.								
PR	19-APR-2000; 2000US-00552203.								
PR	07-JUN-2000; 2000US-0210332P.								
XX	XX								
PA	(ZYMO) ZYMOGENETICS INC.								
XX	XX								
PI	Sheppard PO, Bishop PD, Whitmore TE, Thompson PP;								
XX	XX								
DR	WPI; 2001-355611/37.								
DR	N-PSDB; AAF85427.								
XX	XX								
PT	Novel isolated Zven polypeptide useful for inhibiting proliferation of								
PT	tumor cells, for treating small cell cancer of lung, to promote wound								
PT	healing, and for treating Crohn's disease and diarrhea.								
XX	XX								
PS	Claim 27; Page 4; 98pp; English.								
XX	XX								
CC	The present sequence represents a human Zven2 polypeptide. The								
CC	specification also describes Zven1. The Zven1 gene is present on								
CC	chromosome 3p21.1-3p14.3. The specification also describes Zven2. Zven								
CC	polynucleotides and polypeptides are useful in veterinary and human								
CC	therapeutics, for treating small cell cancer of the lung, to promote								
CC	wound healing, to prevent or to treat an adverse reaction of the skin to								
CC	a skin-sensitizing agent or a skin-irritating agent, to stimulate the								
CC	immune system of an immunocompromised individual, as antitumour agents,								
CC	as antiinflammatory agents, as agents to regulate regeneration or								
CC	remodeling of tissue, as agents to modulate necrosis or tissue growth								
CC	developmental arrest, to inhibit proliferation of tumour cells, cellular								
CC	differentiation and necrosis, to treat disorders associated with								
CC	gastrointestinal cell contractility, secretion of digestive enzymes and								
CC	acids, gastrointestinal motility, recruitment of digestive enzymes,								
CC	inflammation, and conditions associated with hypermotility such as								
CC	diarrhoea and Crohn's disease								
XX	XX								
SQ	Sequence 105 AA;								

Query Match		100.0%;	Score 589;	DB 4;	Length 105;
Best Local Similarity		100.0%;	Pred. No. 3.3e-54;	Indels 0;	Gaps 0;
Matches 105;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEEC 60				
Db	1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEEC 60				
QY	61 HPGSHKVPFFFRKRKHHTCPCLPNLLCSRFPDGRYRCSDMLKNINF 105				
Db	61 HPGSHKVPFFFRKRKHHTCPCLPNLLCSRFPDGRYRCSDMLKNINF 105				
RESULT 5					
ID	AAU12406	standard; protein; 105 AA.			
AC	AAU12406;				
XX	XX				
DT	24-OCT-2001	(first entry)			
XX	XX				
DE	Human PRO1186 polypeptide sequence.				
XX	XX				
KW	Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast;				
KW	prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage;				
KW	ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte;				
KW	A-peptide; factor VIIA; gene therapy.				
XX	XX				
OS	Homo sapiens.				
XX	XX				
PN	WO200140466-A2.				
XX	XX				
PD	07-JUN-2001.				
XX	XX				
PF	01-DEC-2000; 2000WO-US032678.				
XX	XX				
PR	01-DEC-1999; 99WO-US028301.				
PR	01-DEC-1999; 99WO-US028634.				
PR	02-DEC-1999; 99WO-US028551.				
PR	02-DEC-1999; 99WO-US028564.				
PR	02-DEC-1999; 99WO-US028565.				
PR	09-DEC-1999; 99US-0170262P.				
PR	16-DEC-1999; 99WO-US030095.				
PR	20-DEC-1999; 99WO-US030911.				
PR	20-DEC-1999; 99WO-US030999.				
PR	30-DEC-1999; 99WO-US031243.				
PR	30-DEC-1999; 99WO-US031274.				
PR	05-JAN-2000; 2000WO-US000219.				
PR	06-JAN-2000; 2000WO-US000277.				
PR	06-JAN-2000; 2000WO-US000376.				
PR	11-FEB-2000; 2000WO-US003565.				
PR	18-FEB-2000; 2000WO-US004341.				
PR	18-FEB-2000; 2000WO-US004342.				
PR	22-FEB-2000; 2000WO-US004414.				
PR	24-FEB-2000; 2000WO-US004914.				
PR	24-FEB-2000; 2000WO-US005004.				
PR	01-MAR-2000; 2000WO-US005601.				
PR	02-MAR-2000; 2000WO-US005841.				
PR	03-MAR-2000; 2000US-0187202P.				
PR	10-MAR-2000; 2000WO-US006319.				
PR	15-MAR-2000; 2000WO-US006884.				
PR	20-MAR-2000; 2000WO-US007377.				
PR	21-MAR-2000; 2000WO-US007532.				
PR	30-MAR-2000; 2000WO-US008439.				
PR	17-MAY-2000; 2000WO-US013705.				
PR	22-MAY-2000; 2000WO-US014042.				
PR	30-MAY-2000; 2000WO-US014941.				
PR	02-JUN-2000; 2000WO-US015264.				
PR	05-JUN-2000; 2000US-0209832P.				
PR	28-JUL-2000; 2000WO-US020710.				
PR	11-AUG-2000; 2000WO-US022031.				
PR	23-AUG-2000; 2000WO-US023522.				

Query Match 100.0%; Score 589; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.3e-54; Indels 0; Gaps 0;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEBC 60
Db 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEBC 60

QY 61 HPGSHKVPFFFRKRKHHTCPCLPNLLCSRFPDGRYRCSDMLKNINF 105
Db 61 HPGSHKVPFFFRKRKHHTCPCLPNLLCSRFPDGRYRCSDMLKNINF 105

RESULT 5
AAU12406
ID AAU12406 standard; protein; 105 AA.
XX
AC AAU12406;
XX
DT 24-OCT-2001 (first entry)
XX
DE Human PRO1186 polypeptide sequence.
XX
KW Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast;
KW prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage;
KW ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte;
KW A-peptide; factor VIIA; gene therapy.
XX
OS Homo sapiens.
XX
PN WO200140466-A2.
XX
PD 07-JUN-2001.
XX
PF 01-DEC-2000; 2000WO-US032678.
XX
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 09-DEC-1999; 99US-0170262P.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030311.
PR 20-DEC-1999; 99WO-US030999.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 03-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000US-0187202P.
PR 15-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 21-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 05-JUN-2000; 2000US-0209832P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.

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PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PA (GETH ) GENENTECH INC.
XX
XX Baker KP, Beresini M, DeForge L, Deenoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
DR WPI; 2001-408281/43.
DR N-PSDB; AAS21478.
XX
XX Isolated , secretory and transmembrane PRO polypeptide used to detect
PT other PRO polypeptides, link bioactive molecules to cells expressing PRO
PT polypeptides, and detect the presence of mammalian tumors e.g. lung,
PT breast, prostate, cervical.
XX
XX Claim 12; Fig 470; 813pp; English.
XX
XX AAU12172-AAU12446 represent novel human secretory and transmembrane PRO
CC polypeptides. The PRO polypeptides are useful to detect other PRO
CC polypeptides, to link bioactive molecules to cells expressing PRO
CC polypeptides, to modulate biological activities of cells expressing PRO
CC polypeptides, and to detect the presence of mammalian lung, colon,
CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
CC polypeptide expression in a cell sample to that in a control sample. Some
CC of the 275 sequences are also useful to stimulate the release of tumour
CC necrosis factor-alpha (TNF-alpha) from human blood, the proliferation or
CC differentiation of chondrocytes, the proliferation or gene expression in
CC pericyte cells, the release of proteoglycans from cartilage, the
CC proliferation of inner ear utricular supporting cells or of T-
CC lymphocytes, the release of a cytokine from peripheral blood monocytes
CC (PBMCs), or the proliferation of endothelial cells. Some of the PRO
CC polypeptides may modulate glucose or free fatty acid uptake by skeletal
CC muscle cells or by adipocytes; or inhibit binding of A-peptide to factor
CC VIIa. The PRO polypeptides can be used in assays to identify molecules
CC involved in binding interactions. The polynucleotides encoding PRO
CC polypeptides can be used to generate probes, antisense RNA/DNA,
CC transgenic or knock out animals and can be used in gene therapy
XX
XX Sequence 105 AA;
XX
XX Query Match 100.0%; Score 589; DB 4; Length 105;
XX Best Local Similarity 100.0%; Pred. NO. 3.3e-54;
XX Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGREGEC 60
DB 1 MRGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGREGEC 60
QY 61 HPGSHKVPFFRRKXKHTCPCLPNLLCSRPDPGRYRCSMDLKNINF 105
DB 61 HPGSHKVPFFRRKXKHTCPCLPNLLCSRPDPGRYRCSMDLKNINF 105
RESULT 6
AAB53096
ID AAB53096 standard; protein; 105 AA.
XX
XX AC AAB53096;
XX
XX 28-FEB-2001 (first entry)
XX
XX Human angiogenesis-associated protein PRO1186, SEQ ID NO:165.
XX
XX Human; angiogenesis-associated protein; PRO; endothelial cell growth;
KW cardiac hypertrophy; cardiovascular disorder; endothelial disorder;
KW angiogenic disorder; atherosclerosis; osteoporosis; hypertension;
KW myocardial infarction; diabetic retinopathy; rheumatoid arthritis;
KW Crohn's disease; psoriasis; endometriosis; ulcer; wound healing; cancer;
KW Alzheimer's disease; Huntington's disease; stroke; drug screening;
KW gene therapy; transgenic animal.
XX
XX Homo sapiens.
XX WO200053753-A2.
XX
XX 14-SEP-2000.
XX
XX 05-JAN-2000; 2000WO-US000219.
XX
XX 08-MAR-1999; 99WO-US005028.
XX 12-MAR-1999; 99US-0123957P.
XX 14-MAY-1999; 99US-0134287P.
XX 02-JUN-1999; 99WO-US012252.
XX 23-JUN-1999; 99US-0141037P.
XX 20-JUL-1999; 99US-0144758P.
XX 26-JUL-1999; 99US-0145698P.
XX 01-SEP-1999; 99WO-US020111.
XX 08-SEP-1999; 99WO-US020594.
XX 15-SEP-1999; 99WO-US021090.
XX 15-SEP-1999; 99WO-US021547.
XX 05-OCT-1999; 99WO-US023089.
XX 30-NOV-1999; 99WO-US028313.
XX 30-NOV-1999; 99WO-US028409.
XX 02-DEC-1999; 99WO-US028564.
XX 02-DEC-1999; 99WO-US028565.
XX
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Ferrara N, Gerber H, Goddard A;
PI Godowski PJ, Gurney AL, Hillan KJ, Kuo SS, Mark MR, Marsters SA;
PI Paoni NF, Pitti RM, Watanabe CK, Williams PM, Wood WI;
XX
XX WPI; 2001-090793/10.
XX N-PSDB; AAC97496.
XX
XX New isolated nucleic acid for producing a PRO polypeptide, analyzing
PT genetic disorders and treating cardiovascular, endothelial or angiogenic
PT disorders, such as atherosclerosis, wounds or cancer.
XX
XX Claim 69; Fig 66; 293pp; English.
XX
XX The invention relates to novel human angiogenesis-associated proteins
CC designated PRO proteins (AAB53064-B53097), and to nucleic acids encoding
CC PRO proteins. The invention also relates to vectors and host cells
CC comprising a PRO nucleic acid, the recombinant production of a PRO
CC protein, PRO antibodies specific for a PRO protein, fusion proteins
CC comprising a PRO protein, agonists or antagonists of a PRO protein, and
CC compounds which inhibit the expression of a PRO gene. The invention
CC additionally encompasses methods of identifying modulators of PRO
CC expression or activity; diagnosing a cardiovascular, endothelial or
CC angiogenic disorder, or a susceptibility to such a disorder by detecting
CC mutations in a PRO gene, or the expression level of a PRO gene within a
CC particular tissue; treating a cardiovascular, endothelial or angiogenic
CC disorder via the administration of a PRO protein, PRO nucleic acid, or
CC PRO agonist or antagonist; a retroviral gene therapy vector comprising a
CC PRO nucleic acid; and methods of inhibiting or stimulating endothelial
CC cell growth, cardiac hypertrophy or PRO-induced angiogenesis via the
CC administration of a PRO protein, or an agonist or antagonist thereof. PRO
CC nucleic acids, PRO proteins, antibodies against PRO proteins, PRO
CC agonists and PRO antagonists may be used as therapeutic agents to treat
CC cardiovascular, endothelial or angiogenic disorders, such as
CC atherosclerosis, osteoporosis, myocardial infarction, hypertension,
CC diabetic retinopathy, rheumatoid arthritis, Crohn's disease, Huntington's
CC endometriosis, ulcers, wounds, cancer, Alzheimer's disease, Huntington's
CC disease, or stroke. PRO nucleic acids are additionally useful in the
CC recombinant production of PRO proteins, as hybridisation probes to screen
CC libraries to isolate cDNAs with sequence identity to PRO proteins, to map
CC genes encoding PRO proteins, to analyse genetic disorders, and in gene
CC therapy. PRO nucleic acids can also be used to produce transgenic animals
CC useful for the development and screening of potential therapeutic agents.
XX The present sequence represents a PRO protein of the invention
XX
XX Sequence 105 AA;

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PR 05-JAN-2000; 2000WO-US000219.
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Hillan KJ, Napier MA, Watanabe CK, Wood WI;
XX WPI; 2001-071078/08.
XX N-PSDB; AAC84469.
XX
XX Compositions for inhibiting neoplastic cell growth and treating tumor, a
XX cancer, comprises novel PRO1186 or PRO184 polypeptides or its agonist.
XX
XX Claim 31; Fig 2; 104pp; English.
XX
XX The invention provides PRO1186 and PRO184 polypeptides that can be used
XX for the inhibition of neoplastic cell growth and for treating tumours.
XX The PRO polypeptides can be expressed by standard recombinant
XX methodology. The PRO polypeptides or their agonists are useful for
XX inhibition of neoplastic cell growth and for treating tumours, cancers
XX such as breast, ovarian, renal, colorectal, uterine, prostate, lung,
XX bladder or central nervous system cancers or melanoma and leukemia. The
XX present sequence represents the human PRO1186 polypeptide (encoding cDNA
XX clone ID: DNA60621-1516)
XX
XX Sequence 105 AA;
XX
XX Query Match 100.0%; Score 589; DB 4; Length 105;
XX Best Local Similarity 100.0%; Pred. No. 3.3e-54;
XX Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 MEGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGREGEC 60
XX Db 1 MEGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGREGEC 60
XX
XX QY 61 HPGSHKVPFFRKRKHHTCPLNLLCSRPDPGRYCSMDLKNINF 105
XX Db 61 HPGSHKVPFFRKRKHHTCPLNLLCSRPDPGRYCSMDLKNINF 105
XX
XX RESULT 9
XX AAB48067
XX ID AAB48067 standard; protein; 105 AA.
XX AC AAB48067;
XX
XX 19-MAR-2001 (first entry)
XX
XX Human extracellular signaling molecule (EXCS) (ID 2006548CD1).
XX
XX Extracellular signaling molecule; EXCS; anti-inflammatory; human;
XX immunosuppressive; cytostatic; neuroprotective; Gastrointestinal;
XX viricide; antibacterial; anti-HIV; human immunodeficiency virus;
XX antinfertility; cerebroprotective; nootropic; antiulcer; antifungal;
XX anticonvulsant; tranquilizer; neuroleptic; vasotropic; gynecological;
XX keratolytic; protozoacide; gene therapy.
XX
XX Homo sapiens.
XX
XX WO200070049-A2.
XX
XX 23-NOV-2000.
XX
XX 19-MAY-2000; 2000WO-US013975.
XX
XX 19-MAY-1999; 99US-0134949P.
XX 15-JUL-1999; 99US-0144270P.
XX 30-JUL-1999; 99US-0146700P.
XX 04-OCT-1999; 99US-0157508P.
XX
XX (INCY-) INCYTE GENOMICS INC.
XX
XX Tang YT, Yue H, Lal P, Burford N, Bandman O, Baughn MR;
XX Azimzai Y, Lu DAM, Patterson C;

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XX WPI; 2001-025021/03.
XX N-PSDB; AAC84303.
XX
XX New human extracellular signaling nucleic acids and polypeptides useful
XX for diagnosing, treating and preventing infections and gastrointestinal,
XX neurological, reproductive, and autoimmune/inflammatory disorders.
XX
XX Claim 1; Page 89; 114pp; English.
XX
XX The invention provides human extracellular signaling molecules (EXCS) and
XX polynucleotides which identify and encode EXCS. EXCS can be expressed by
XX standard recombinant methodology. The amino acid and nucleic acid
XX sequences of EXCS are useful for diagnosing, treating and preventing
XX infections and gastrointestinal (peptic ulcer, dysphagia, pancreatitis),
XX neurological (e.g. epilepsy, ischemic cerebrovascular disease, stroke),
XX reproductive (infertility, ovulatory defects, endometriosis), autoimmune
XX /inflammatory (actinic keratosis, acquired immunodeficiency syndrome
XX (AIDS), Addison's disease), and cell proliferative disorders including
XX cancers (of the breast, adrenal gland, bone). They may also be used to
XX treat fatal familial insomnia, nutritional and metabolic diseases of the
XX nervous system, myopathies, mental disorders (anxiety, schizophrenia,
XX mood), as well as infections caused by parasites (malaria, leishmania,
XX trypanosoma), viral (adenovirus, coronavirus, flavivirus), bacterial
XX (e.g. pneumococcus, staphylococcus, bacillus), and fungal (aspergillus,
XX blastomyces, dermatophytes) agents. The nucleic acids, polypeptides,
XX antagonists, agonists, pharmaceutical compositions, and antibodies may
XX also be used for treating or preventing disorders associated with
XX increased or decreased expression or activity of EXCS. EXCS
XX polynucleotides may also be used to detect and quantify gene expression
XX in biopsied tissues in which expression of EXCS may be correlated with
XX the disease, to determine presence or excess expression of EXCS, to
XX monitor regulation of EXCS levels during therapeutic intervention, to
XX detect the presence of associated disorders, as targets in microarray, to
XX generate hybridization probes, and to detect differences in gene
XX sequences among normal, carrier or affected individuals. Antibodies may
XX also be used in diagnosing disorders, in monitoring patients being
XX treated with EXCS agonists, antagonists or inhibitors. Sequences AAB48057
XX -B48082 represent the EXCS of the invention
XX
XX Sequence 105 AA;
XX
XX Query Match 100.0%; Score 589; DB 4; Length 105;
XX Best Local Similarity 100.0%; Pred. No. 3.3e-54;
XX Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 MEGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGREGEC 60
XX Db 1 MEGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGREGEC 60
XX
XX QY 61 HPGSHKVPFFRKRKHHTCPLNLLCSRPDPGRYCSMDLKNINF 105
XX Db 61 HPGSHKVPFFRKRKHHTCPLNLLCSRPDPGRYCSMDLKNINF 105
XX
XX RESULT 10
XX AAM50773
XX ID AAM50773 standard; protein; 105 AA.
XX AC AAM50773;
XX
XX 23-APR-2002 (first entry)
XX
XX Endocrine gland-derived vascular endothelial growth factor.
XX
XX Endocrine gland-derived vascular endothelial growth factor; EG-VEGF;
XX human; cell proliferation; cell migration; fenestration;
XX cell differentiation; angiogenesis; chemotaxis; endocrine; infertility;
XX fertility; polycystic ovary syndrome; ovarian cyst; cancer; cytostatic;
XX diagnosis; therapy.
XX
XX Homo sapiens.
XX
XX

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PH	Key	Location/Qualifiers	
FT	Peptide	1..19	
FT	Protein	/label= Signal_peptide	
FT		20..105	
FT	Modified-site	/label= Mature_protein	
FT		33	
FT	Modified-site	/note= "N-myristoylated"	
FT		35	
FT	Modified-site	/note= "N-myristoylated"	
FT		46	
FT	Modified-site	/note= "N-myristoylated"	
XX			
PN	WO200200711-A2.		
XX			
PD	03-JAN-2002.		
XX			
XX	22-JUN-2001; 2001WO-US020116.		
XX	23-JUN-2000; 2000US-0213637P.		
PR	07-SEP-2000; 2000US-0230978P.		
PR	01-DEC-2000; 2000WO-US032678.		
XX			
PA	(GETH) GENENTECH INC.		
XX			
PI	Ferrara N, Watanabe C, Wood WI;		
XX			
DR	WPI; 2002-130882/17.		
DR	N-PSDB; ABA91567.		
XX			
PT	New endocrine gland-vascular endothelial growth factor (EG-VEGF)		
PT	polypeptides, agonists and antagonists, useful for regulating fertility,		
PT	and for treating cancer of the reproductive organs, e.g. ovarian or		
PT	prostate cancer.		
XX			
PS	Claim 12; Fig 2; 133pp; English.		
XX			
CC	The present sequence is that of a novel, tissue-restricted, growth and		
CC	differentiation factor termed endocrine gland-derived vascular		
CC	endothelial growth factor (EG-VEGF). The sequence is predicted from the		
CC	open reading frame of a cDNA clone (see ABA91567) obtained from an		
CC	ovarian tissue library. EG-VEGF induces proliferation, migration and		
CC	fenestrations in capillary endothelial cells derived from endocrine		
CC	glands, but has no effect on a variety of other endothelial and non-		
CC	endothelial cell types tested. The EG-VEGF precursor has a predicted		
CC	mol.wt. of 11715 and a pI of 9.05. The mature protein (mol.wt. 8600) is		
CC	cysteine-rich and is predicted to consist of a series of short beta		
CC	strands with large connecting loops held together by disulfide bonds		
CC	resulting in a flat fold with finger-like projections that act as		
CC	interactive surfaces. 80% Homology and 63% identity is shown to venom		
CC	protein A (VPRA) of the black mamba snake, and 76% homology and 58%		
CC	identity to human protein bV8. EG-VEGF nucleic acids and polypeptides, as		
CC	well as agonists and antagonists, can be used in the treatment of		
CC	conditions associated with hormone-producing tissue, especially ovarian,		
CC	testicular, cervical, adrenal, placental or prostate tissue. The		
CC	condition may be polycystic ovary syndrome, cancer, especially ovarian		
CC	cyst (all claimed). Fertility can be regulated using an EG-VEGF		
CC	antagonist to inhibit follicle maturation or ovulation. Methods are		
CC	claimed for identifying compounds that modulate EG-VEGF activity,		
CC	especially the ability to induce phosphorylation of a kinase involved in		
CC	cell proliferation or survival, to induce chemotaxis, angiogenesis, or		
CC	cell differentiation, or to induce endothelial cell proliferation		
XX			
SQ	Sequence 105 AA;		
	Query Match 100.0%; Score 589; DB 5; Length 105;		
	Best Local Similarity 100.0%; Pred. No. 3.3e-54;		
	Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
QY	1 MRGATRVSIMLLLVTSQCAVITGACERDVQCGAGTCCCAISLWLRLGLRMCTPLRGEGEC 60		
DB	1 MRGATRVSIMLLLVTSQCAVITGACERDVQCGAGTCCCAISLWLRLGLRMCTPLRGEGEC 60		

QY	61 HPGSHKVPFFRRKRKHHTCPCLPNLLCSRFDPGRYRCSDMLKNINF 105	
DB	61 HPGSHKVPFFRRKRKHHTCPCLPNLLCSRFDPGRYRCSDMLKNINF 105	
	RESULT 11	
AAU83674		
ID	AAU83674 standard; protein; 105 AA.	
XX	AAU83674;	
XX	08-MAY-2002 (first entry)	
XX	Human PRO protein, Seq ID No 166.	
XX	Human; secreted protein; PRO; tumour; lung cancer; colon cancer;	
KW	breast cancer; prostate tumour; rectal tumour; liver tumour;	
KW	pericyte cell proliferation; chondrocyte cell proliferation;	
KW	tumour necrosis factor-alpha.	
XX	Homo sapiens.	
OS	WO200208288-A2.	
PN	31-JAN-2002.	
XX	29-JUN-2001; 2001WO-US021066.	
XX	20-JUL-2000; 2000US-0219556P.	
PR	25-JUL-2000; 2000US-0220585P.	
PR	25-JUL-2000; 2000US-0220605P.	
PR	25-JUL-2000; 2000US-0220607P.	
PR	25-JUL-2000; 2000US-0220624P.	
PR	25-JUL-2000; 2000US-0220638P.	
PR	25-JUL-2000; 2000US-0220664P.	
PR	26-JUL-2000; 2000US-0220666P.	
PR	26-JUL-2000; 2000US-0220893P.	
PR	28-JUL-2000; 2000WO-US020710.	
PR	01-AUG-2000; 2000US-0222425P.	
PR	22-AUG-2000; 2000US-0227113P.	
PR	23-AUG-2000; 2000WO-US023522.	
PR	24-AUG-2000; 2000WO-US023328.	
PR	10-NOV-2000; 2000WO-US030873.	
PR	28-NOV-2000; 2000US-0253646P.	
PR	01-DEC-2000; 2000WO-US032678.	
PR	20-DEC-2000; 2000US-00747259.	
PR	28-FEB-2001; 2001WO-US006520.	
PR	01-MAR-2001; 2001WO-US006666.	
PR	22-MAR-2001; 2001US-00816744.	
PR	10-MAY-2001; 2001US-00854208.	
PR	10-MAY-2001; 2001US-00854280.	
PR	25-MAY-2001; 2001WO-US017092.	
XX	(GETH) GENENTECH INC.	
PA	Baker KP, Desnoyers L, Gerritsen MB, Goddard A, Godowski PJ;	
PI	Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;	
XX	WPI; 2002-172001/22.	
DR	N-PSDB; ABK33618.	
XX	One hundred and twenty two nucleic acids encoding PRO polypeptides,	
PT	useful for treating a PRO related disorder and for diagnosing tumors such	
PT	as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor	
PT	or liver tumor.	
XX	Claim 11; Fig 166; 359pp; English.	
XX	The invention relates to one hundred and twenty two nucleic acids	
CC	encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides	
CC	encode human secreted proteins. The PRO nucleic acids, polypeptides,	
CC	agonists and antagonists are useful for treating a PRO related disorder.	

CC The PRO polypeptides are useful for diagnosing tumours, especially lung
 CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
 CC liver tumour. The PRO polypeptides are useful for stimulating the
 CC proliferation of, or gene expression, in pericyte cells, for stimulating
 CC the proliferation or differentiation of chondrocyte cells, for
 CC stimulating the release of tumour necrosis factor- α from human blood,
 CC for stimulating or inhibiting the proliferation of normal human dermal
 CC fibroblast cells. The PRO polypeptide may also be used as molecular
 CC weight markers and for tissue typing. The PRO nucleic acids have
 CC applications in molecular biology, including use as hybridisation probes,
 CC and in chromosome and gene mapping. AA083592-AA083713 represent human PRO
 CC protein sequences of the invention
 XX
 XX Sequence 105 AA;

Query Match 100.0%; Score 589; DB 5; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MEGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGEC 60
 DB 1 MEGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGEC 60

QY 61 HPGSHKVPFFRKRKHHTCPCLENLLCSRPDPGRYRCMDLKNINF 105
 DB 61 HPGSHKVPFFRKRKHHTCPCLENLLCSRPDPGRYRCMDLKNINF 105

RESULT 12
 ID ABB84902
 AC ABB84902;
 XX
 XX 16-MAY-2002 (first entry)
 XX Human PRO1186 protein sequence SEQ ID NO:172.
 XX
 KW Human; angiogenesis; cardiac; cytotatic; antiangiogenic; hypotensive;
 KW vulnerary; antiarteriosclerotic; PRO-agonist; PRO-antagonist; trauma;
 KW gene therapy; cardiovascular; cardiac hypertrophy; endothelial disorder; cancer;
 KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
 KW age-related macular degeneration; arterial restenosis; angina;
 KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;
 KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
 KW wound healing; chromosome mapping; gene mapping.
 XX
 OS Homo sapiens.
 XX
 XX WO200200690-A2.
 XX
 XX 03-JAN-2002.
 XX
 XX 20-JUN-2001; 2001WO-US019692.
 XX
 XX 23-JUN-2000; 2000US-0213637P.
 XX 20-JUL-2000; 2000US-0219556P.
 XX 25-JUL-2000; 2000US-0220624P.
 XX 25-JUL-2000; 2000US-0220664P.
 XX 28-JUL-2000; 2000WO-US020710.
 XX 02-AUG-2000; 2000US-0222695P.
 XX 17-AUG-2000; 2000US-00643657.
 XX 23-AUG-2000; 2000WO-US023522.
 XX 24-AUG-2000; 2000WO-US023328.
 XX 07-SEP-2000; 2000US-0230978P.
 XX 18-SEP-2000; 2000US-00664610.
 XX 18-SEP-2000; 2000US-00665350.
 XX 24-OCT-2000; 2000US-0242922P.
 XX 08-NOV-2000; 2000US-00709238.
 XX 08-NOV-2000; 2000WO-US030952.
 XX 10-NOV-2000; 2000WO-US030873.
 XX 01-DEC-2000; 2000WO-US032678.
 XX 20-DEC-2000; 2000US-00747259.

PR 20-DEC-2000; 2000WO-US034956.
 PR 22-JAN-2001; 2001US-00767609.
 PR 28-FEB-2001; 2001US-00796498.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-MAR-2001; 2001WO-US006686.
 PR 09-MAR-2001; 2001US-00802706.
 PR 14-MAR-2001; 2001US-00808689.
 PR 22-MAR-2001; 2001US-00816744.
 PR 05-APR-2001; 2001US-00828366.
 PR 10-MAY-2001; 2001US-00854208.
 PR 25-MAY-2001; 2001US-00866028.
 PR 25-MAY-2001; 2001US-00866034.
 PR 30-MAY-2001; 2001WO-US017092.
 PR 30-MAY-2001; 2001US-00870574.
 PR 01-JUN-2001; 2001WO-US017443.
 PR 01-JUN-2001; 2001WO-US017800.
 XX (GETH) GENENTECH INC.
 PA Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;
 PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
 XX WPI; 2002-090516/12.
 DR N-PSDB; ABL88157.
 XX
 PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 PT infarction), endothelial or angiogenic disorders in a mammal.
 XX
 PS Claim 11; Fig 172; 565pp; English.
 XX
 CC ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to
 CC ABB85003. The PRO proteins and polynucleotides have cardiant, cytostatic,
 CC antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic
 CC activities, and can be used in gene therapy. The PRO polynucleotides,
 CC proteins, agonists and antagonists are useful for treating or diagnosing
 CC a cardiovascular, endothelial or angiogenic disorder in a mammal, e.g.
 CC cardiac hypertrophy, trauma, cancer, age-related macular degeneration,
 CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
 CC angina, myocardial infarction, thrombophlebitis, lymphangitis, tumour
 CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound
 CC healing. The PRO polynucleotides have applications in molecular biology,
 CC including use as hybridisation probes, and in chromosome and gene
 CC mapping. ABL88259 to ABL88267 represent primers and probes used in the
 CC exemplification of the present invention
 XX
 XX Sequence 105 AA;

Query Match 100.0%; Score 589; DB 5; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MEGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGEC 60
 DB 1 MEGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGEC 60

QY 61 HPGSHKVPFFRKRKHHTCPCLENLLCSRPDPGRYRCMDLKNINF 105
 DB 61 HPGSHKVPFFRKRKHHTCPCLENLLCSRPDPGRYRCMDLKNINF 105

RESULT 13
 ID AAO15527
 AC AAO15527;
 XX
 XX 24-OCT-2002 (first entry)
 XX Human physiologically-active ZAQ ligand-related protein 3.
 DE
 XX

KW Human; ZAQ ligand; physiologically-active ZAQ ligand; digestive disease;
KW colitis; diarrhoea.
XX
XX Homo sapiens.
XX WO200257443-A1.
XX
XX 25-JUL-2002.
XX
XX 21-JAN-2002; 2002WO-JP000378.
XX
XX 22-JAN-2001; 2001JP-00013027.
XX
XX 17-MAY-2001; 2001JP-00147759.
XX
XX (TAKE) TAKEDA CHEM IND LTD.
XX
XX Yamada T, Suenaga M, Nishimura O;
XX WPI; 2002-566801/60.
XX
XX Industrial production of physiologically-active ZAQ ligand by expressing
XX in transformant prokaryote and refolding in redox buffer, for use in
XX preventing or treating digestive diseases e.g. colitis and diarrhoea.
XX
XX Example 3; Page 76-77; 93pp; Japanese.
XX
XX The invention comprises a method for producing an active peptide that has
XX the same activity as a ZAQ ligand isolated from eukaryotic cells. The
XX method of the invention is useful for the production of a physiologically
XX -active ZAQ ligand for use in preventing or treating digestive diseases
XX (e.g. colitis and diarrhoea). The present amino acid sequence represents a
XX human physiologically active ZAQ ligand-related protein
XX
XX Sequence 105 AA;
Query Match 100.0%; Score 589; DB 5; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.3e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
DB 1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
QY 61 HPGSHKVPFFRRKRKHTCPCLPNLLCSFRPPDGRYRCSMDLKNINF 105
DB 61 HPGSHKVPFFRRKRKHTCPCLPNLLCSFRPPDGRYRCSMDLKNINF 105
RESULT 14
ABB06308
ID ABB06308 standard; protein; 105 AA.
XX
XX ABB06308;
XX
XX 27-MAY-2002 (first entry)
XX
XX Human G protein-coupled receptor ZAQ ligand protein SEQ ID NO:23.
XX
XX G protein-coupled receptor; ZAQ ligand; physiologically active peptide;
XX ZAQ; antidiarrheic; laxative; drug development; digestive disease;
XX colitis; diarrhoea; constipation; poor-absorption syndrome; gene therapy.
XX
XX Homo sapiens.
XX
XX WO200206483-A1.
XX
XX 24-JAN-2002.
XX
XX 17-JUL-2001; 2001WO-JP006162.
XX
XX 18-JUL-2000; 2000JP-00217442.
XX
XX 02-FEB-2001; 2001JP-00026779.
XX

PA (TAKE) TAKEDA CHEM IND LTD.
XX
XX Ohtaki T, Masuda Y, Takatsu Y, Watanabe T, Terao Y, Shintani Y;
XX Hinuma S;
XX
XX WPI; 2002-188546/24.
XX N-PSDB; ABL49637.
XX
XX Physiologically-active peptides from cows milk. useful for developing
XX drugs to treat ZAQ-mediated diseases, particularly digestive diseases,
XX like colitis, diarrhoea, constipation and poor-absorption syndrome, by
XX gene therapy.
XX
XX Claim 5; Page 61; 191pp; Japanese.
XX
XX The present invention describes a peptide containing an amino acid
XX sequence (I) identical to or substantially similar to that of the
XX sequences in ABB06305 or ABB06306, or its salt. (I) has antidiarrheic and
XX laxative activities. The peptides and encoding DNAs from the present
XX invention are useful for developing drugs to treat digestive diseases
XX like colitis, diarrhoea, constipation and poor-absorption syndrome,
XX including gene therapy. The physiologically-active cows milk-originated
XX peptides are applicable as a specific ligand of brain-originated orphan G
XX protein-coupled receptor protein ZAQ. ABL49615 to ABB40659 and ABB06303
XX to ABB06315 represent sequences used in the exemplification of the
XX present invention
XX
XX Sequence 105 AA;
Query Match 100.0%; Score 589; DB 5; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.3e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
DB 1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
QY 61 HPGSHKVPFFRRKRKHTCPCLPNLLCSFRPPDGRYRCSMDLKNINF 105
DB 61 HPGSHKVPFFRRKRKHTCPCLPNLLCSFRPPDGRYRCSMDLKNINF 105
RESULT 15
AAE24382
ID AAE24382 standard; protein; 105 AA.
XX
XX AAE24382;
XX
XX 04-OCT-2002 (first entry)
XX
XX Human prokineticin 1 precursor protein.
XX
XX Human; prokineticin 1; gastrointestinal motility; intestinal cancer;
XX irritable bowel syndrome; gastrointestinal reflux disease; diarrhoea;
XX diabetic gastroparesis; chronic constipation; malabsorptive disorder;
XX inflammatory bowel disorder; analgesic; infectious disease.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX Peptide 1..19
XX /label= signal_peptide
XX Protein 20..105
XX /note= "Mature human prokineticin 1"
XX
XX WO200236625-A2.
XX
XX 10-MAY-2002.
XX
XX 01-NOV-2001; 2001WO-US047969.
XX
XX 03-NOV-2000; 2000US-0245882P.
XX

PA (REGC) UNIV CALIFORNIA.
XX
PI Zhou Q, Ehlert FJ;
XX
DR WPI: 2002-479752/51.
DR N-PSDB; AAD39321.
XX
PT New isolated human prokineticin 1 and 2 polypeptides that stimulate
PT gastrointestinal smooth muscle contraction, useful for improving impaired
PT gastrointestinal motility in irritable bowel syndrome, chronic
PT constipation.
XX
PS Example 1; Fig 1; 86pp; English.
XX
CC The invention relates to human prokineticin 1 and 2 polypeptides that
CC stimulate gastrointestinal smooth muscle contraction and nucleic acid
CC molecules encoding such polypeptides. Polypeptides of the invention are
CC useful for treating disorders involving impaired gastrointestinal
CC motility. They are useful for stimulating gastrointestinal motility in
CC disorders such as irritable bowel syndrome, diabetic gastroparesis, post-
CC operational ileus, chronic constipation and gastrointestinal reflux
CC disease. The prokineticin antagonists are useful for inhibiting
CC gastrointestinal motility in conditions of diarrhoea, malabsorptive
CC disorders, inflammatory bowel disorders, infectious diseases and
CC intestinal cancers. The antagonists also act as analgesics. The present
CC sequence is human prokineticin 1 precursor protein
XX
SQ Sequence 105 AA;

Query Match 100.0%; Score 589; DB 5; Length 105;
Best Local Similarity 100.0%; Pred. No. 3.3e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MEGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
Db 1 MEGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60

Qy 61 HPGSHKVPFFRKRRKHHTCPCLPNLLCSRFPGDGRYRCMDLKNINF 105
Db 61 HPGSHKVPFFRKRRKHHTCPCLPNLLCSRFPGDGRYRCMDLKNINF 105

Search completed: November 1, 2005, 14:49:02
Job time : 175 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 1, 2005, 14:52:11 ; Search time 167 Seconds
(without alignments)
262.841 Million cell updates/sec

Title: US-10-027-603-2

Perfect score: 589

Sequence: 1 MRGATRVISMLLLTVSDCA.....CSRFPDGRVRCSDMLKNINF 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1865214 seqs, 418043040 residues

Total number of hits satisfying chosen parameters: 1865214

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
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- 22: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	589	100.0	105	9	US-09-989-723-371	Sequence 371, App
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4	589	100.0	105	9	US-09-989-723-371	Sequence 371, App
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14	589	100.0	105	9	US-09-989-721-371	Sequence 371, App
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45	589	100.0	105	9	US-09-989-721-371	Sequence 371, App

ALIGNMENTS

RESULT 1
US-09-989-722-371
; Sequence 371, Application US/09989722
; Patent No. US20020072067A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC63
; CURRENT APPLICATION NUMBER: US/09/989,722
; CURRENT FILING DATE: 2001-11-19

1	1	PRIOR APPLICATION NUMBER: 60/049787	1	1	PRIOR FILING DATE: 1998-06-12
2	2	PRIOR FILING DATE: 1997-06-16	2	2	PRIOR APPLICATION NUMBER: 60/089440
3	3	PRIOR APPLICATION NUMBER: 60/062250	3	3	PRIOR FILING DATE: 1998-06-16
4	4	PRIOR FILING DATE: 1997-10-17	4	4	PRIOR APPLICATION NUMBER: 60/089512
5	5	PRIOR APPLICATION NUMBER: 60/065186	5	5	PRIOR FILING DATE: 1998-06-16
6	6	PRIOR FILING DATE: 1997-11-12	6	6	PRIOR APPLICATION NUMBER: 60/089514
7	7	PRIOR APPLICATION NUMBER: 60/065311	7	7	PRIOR FILING DATE: 1998-06-16
8	8	PRIOR FILING DATE: 1997-11-13	8	8	PRIOR APPLICATION NUMBER: 60/089532
9	9	PRIOR APPLICATION NUMBER: 60/066770	9	9	PRIOR FILING DATE: 1998-06-17
10	10	PRIOR FILING DATE: 1997-11-24	10	10	PRIOR APPLICATION NUMBER: 60/089538
11	11	PRIOR APPLICATION NUMBER: 60/075945	11	11	PRIOR FILING DATE: 1998-06-17
12	12	PRIOR FILING DATE: 1998-02-25	12	12	PRIOR APPLICATION NUMBER: 60/089598
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16	16	PRIOR FILING DATE: 1998-04-28	16	16	PRIOR APPLICATION NUMBER: 60/089600
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19	19	PRIOR APPLICATION NUMBER: 60/087106	19	19	PRIOR FILING DATE: 1998-06-17
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37	37	PRIOR APPLICATION NUMBER: 60/088029	37	37	PRIOR FILING DATE: 1998-06-22
38	38	PRIOR FILING DATE: 1998-06-04	38	38	PRIOR APPLICATION NUMBER: 60/090349
39	39	PRIOR APPLICATION NUMBER: 60/088030	39	39	PRIOR FILING DATE: 1998-06-23
40	40	PRIOR FILING DATE: 1998-06-04	40	40	PRIOR APPLICATION NUMBER: 60/090355
41	41	PRIOR APPLICATION NUMBER: 60/088033	41	41	PRIOR FILING DATE: 1998-06-23
42	42	PRIOR FILING DATE: 1998-06-04	42	42	PRIOR APPLICATION NUMBER: 60/090429
43	43	PRIOR APPLICATION NUMBER: 60/088326	43	43	PRIOR FILING DATE: 1998-06-24
44	44	PRIOR FILING DATE: 1998-06-04	44	44	PRIOR APPLICATION NUMBER: 60/090431
45	45	PRIOR APPLICATION NUMBER: 60/088167	45	45	PRIOR FILING DATE: 1998-06-24
46	46	PRIOR FILING DATE: 1998-06-05	46	46	PRIOR APPLICATION NUMBER: 60/090435
47	47	PRIOR APPLICATION NUMBER: 60/088202	47	47	PRIOR FILING DATE: 1998-06-24
48	48	PRIOR FILING DATE: 1998-06-05	48	48	PRIOR APPLICATION NUMBER: 60/090444
49	49	PRIOR APPLICATION NUMBER: 60/088212	49	49	PRIOR FILING DATE: 1998-06-24
50	50	PRIOR FILING DATE: 1998-06-05	50	50	PRIOR APPLICATION NUMBER: 60/090445
51	51	PRIOR APPLICATION NUMBER: 60/088217	51	51	PRIOR FILING DATE: 1998-06-24
52	52	PRIOR FILING DATE: 1998-06-05	52	52	PRIOR APPLICATION NUMBER: 60/090472
53	53	PRIOR APPLICATION NUMBER: 60/088655	53	53	PRIOR FILING DATE: 1998-06-24
54	54	PRIOR FILING DATE: 1998-06-09	54	54	PRIOR APPLICATION NUMBER: 60/090515
55	55	PRIOR APPLICATION NUMBER: 60/088734	55	55	PRIOR FILING DATE: 1998-06-24
56	56	PRIOR FILING DATE: 1998-06-10	56	56	PRIOR APPLICATION NUMBER:

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? PRIOR APPLICATION NUMBER: 60/091626
? PRIOR FILING DATE: 1998-07-02
? PRIOR APPLICATION NUMBER: 60/091633
? PRIOR FILING DATE: 1998-07-02
? PRIOR APPLICATION NUMBER: 60/091978
? PRIOR FILING DATE: 1998-07-07
? PRIOR APPLICATION NUMBER: 60/091982
? PRIOR FILING DATE: 1998-07-07
? PRIOR APPLICATION NUMBER: 60/092182
? PRIOR FILING DATE: 1998-07-09

Query Match          100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVISMLLVTVSDCAVITGACERDVQCAGTCCALSILWLRGLRMCTPLRGEGEC 60
Db 1 MRGATRVISMLLVTVSDCAVITGACERDVQCAGTCCALSILWLRGLRMCTPLRGEGEC 60

Qy 61 HPGSHKVPFPRKRKHTCPLNLLCSRFPDGRYRCSMDLKNINF 105
Db 61 HPGSHKVPFPRKRKHTCPLNLLCSRFPDGRYRCSMDLKNINF 105

RESULT 3
US-09-989-279-371
; Sequence 371, Application US/09989279
; Patent No. US20020072496A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C56
; CURRENT APPLICATION NUMBER: US/09/989,279
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12

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PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 607/089532
PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 607/089533
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PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 607/089539
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PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 607/089907
PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 607/089908
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PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 607/090862
PRIOR FILING DATE: 1998-06-26	PRIOR APPLICATION NUMBER: 607/090863
PRIOR FILING DATE: 1998-06-26	PRIOR APPLICATION NUMBER: 607/091360
PRIOR FILING DATE: 1998-07-07	PRIOR APPLICATION NUMBER: 607/091360

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; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
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; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWLRLMCTPLGREGREC 60
Db      1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWLRLMCTPLGREGREC 60

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Db      61 HPGSHKVPFFRKRKHHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105

RESULT 4
US-09-989-727-371
; Sequence 371, Application US/09989727
; Patent No. US20020072497A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC65
; CURRENT APPLICATION NUMBER: US/09/989,727
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
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; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWLRGRLMCTPLGREGESC 60
Db 1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWLRGRLMCTPLGREGESC 60

QY 61 HPGSHKVPFFRRKRKHTCPLNLLCSRFPDGRYRCSDMLKNINF 105
Db 61 HPGSHKVPFFRRKRKHTCPLNLLCSRFPDGRYRCSDMLKNINF 105

RESULT 5

US-09-989-731-371
; Sequence 371, Application US/09989731
; Patent No. US20020103125A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PLC70
; CURRENT APPLICATION NUMBER: US/09/989,731
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
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; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25

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; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  MGRATRVSMILLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
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RESULT 6
US-09-989-732-371
; Sequence 371, Application US/09989732
; Patent No. US20020123463A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC57
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; CURRENT FILING DATE: 2001-11-19
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; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match          100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 7
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; Sequence 371, Application US/09991073
; Patent No. US20020127576A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
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; APPLICANT: Godowski, Paul J.
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; APPLICANT: Gurney, Austin L.
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; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C15
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23 PRIOR APPLICATION NUMBER: 60/088033
24 PRIOR FILING DATE: 1998-06-04
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RESULT 8
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; Patent No. US20020132252A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
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; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
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; TITLE OF INVENTION: Acids Encoding the Same
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; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182

; PRIOR FILING DATE: 1998-07-09
Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MEGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCCTPLGRGEEC 60
DB 1 MEGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCCTPLGRGEEC 60
QY 61 HFGSHKVPFFRRKKHHTCPCLNLLCSRPDPDGRYRCSDMLKNINF 105
DB 61 HFGSHKVPFFRRKKHHTCPCLNLLCSRPDPDGRYRCSDMLKNINF 105
RESULT 9
US-09-991-163-371
; Sequence 371, Application US/09991163
; Patent No. US20020132253A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC17
; CURRENT APPLICATION NUMBER: US/09/991,163
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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7	PRIOR APPLICATION NUMBER: 60/091978
7	PRIOR FILING DATE: 1998-07-07
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7	PRIOR FILING DATE: 1998-07-07
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7	PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;

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Db	61	HPGSHKVPPFRKKHHTCFCLEPNLLCSRPDPDGRYCSMDLKNINF	105

RESULT 11

US-09-990-456-371

; Sequence 371, Application US/09990456

; Patent No. US20020137890A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: P2730PIC22

; CURRENT APPLICATION NUMBER: US/09/990,456

; CURRENT FILING DATE: 2001-11-14

; PRIOR APPLICATION NUMBER: 60/049787

; PRIOR FILING DATE: 1997-06-16

; PRIOR APPLICATION NUMBER: 60/062250

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;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREBEC 60
|||||
DB 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREBEC 60
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Qy	61	HPGSHKVPFRKXKHTCTCLPNLLCSRPDGRYRCSMDLKNINF	105
Db	61	HPGSHKVPFRKXKHTCTCLPNLLCSRPDGRYRCSMDLKNINF	105
RESULT 12			
US-09-989-721-371			
; Sequence 371, Application US/09989721			
; Patent No. US20020142961A1			
; GENERAL INFORMATION:			
; APPLICANT: Ashkenazi, Avi J.			
; APPLICANT: Baker, Kevin P.			
; APPLICANT: Botstein, David			
; APPLICANT: Desnoyers, Luc			
; APPLICANT: Eaton, Dan L.			
; APPLICANT: Ferrara, Napoleone			
; APPLICANT: Fong, Sherman			
; APPLICANT: Gerber, Hanspeter			
; APPLICANT: Gerritsen, Mary E.			
; APPLICANT: Goddard, Audrey			
; APPLICANT: Godowski, Paul J.			
; APPLICANT: Grimaldi, J. Christopher			
; APPLICANT: Gurney, Austin L.			
; APPLICANT: Kljavin, Ivar J.			
; APPLICANT: Napier, Mary A.			
; APPLICANT: Pan, James			
; APPLICANT: Paoni, Nicholas F.			
; APPLICANT: Roy, Margaret Ann			
; APPLICANT: Stewart, Timothy A.			
; APPLICANT: Tumas, Daniel			
; APPLICANT: Watanabe, Colin K.			
; APPLICANT: Williams, P. Mickey			
; APPLICANT: Wood, William I.			
; APPLICANT: Zhang, Zemin			
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic			
; FILE REFERENCE: P2730PIC55			
; CURRENT APPLICATION NUMBER: US/09/989,721			
; CURRENT FILING DATE: 2001-11-19			
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;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRGATRVSMILLVTVSDCAVITGACERDVQCCAGTCCCAISLWLRGLRMTCTPLGREGEC 60
Db 1 MRGATRVSMILLVTVSDCAVITGACERDVQCCAGTCCCAISLWLRGLRMTCTPLGREGEC 60
QY 61 HPGSHKVPFRKRKHHTCPCLNLLCSRFPDGRYRCMDLNKNINF 105

Db 61 HPGSHKVPFRKRKHHTCPCLNLLCSRFPDGRYRCMDLNKNINF 105
RESULT 13
US-09-992-598-371
; Sequence 371, Application US/09992598
; Patent No. US20020160384A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC20
; CURRENT APPLICATION NUMBER: US/09/992,598
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084500
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
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; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
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; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04

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?	PRIOR APPLICATION NUMBER:	60/091360
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?	PRIOR APPLICATION NUMBER:	60/091478
?	PRIOR FILING DATE:	1998-07-02
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?	PRIOR FILING DATE:	1998-07-01
?	PRIOR APPLICATION NUMBER:	60/091519
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?	PRIOR APPLICATION NUMBER:	60/091626
?	PRIOR FILING DATE:	1998-07-02
?	PRIOR APPLICATION NUMBER:	60/091633
?	PRIOR FILING DATE:	1998-07-02
?	PRIOR APPLICATION NUMBER:	60/091978
?	PRIOR FILING DATE:	1998-07-07
?	PRIOR APPLICATION NUMBER:	60/091982
?	PRIOR FILING DATE:	1998-07-07
?	PRIOR APPLICATION NUMBER:	60/092182
?	PRIOR FILING DATE:	1998-07-09

Qy	Qy	Db	Qy	Db
1	1	1	61	61
MRGATRVSMLLLVTTVSDCAVITGACERDVQCGAGTCCCAISLWLRLRMCTPLRGREGEC	MRGATRVSMLLLVTTVSDCAVITGACERDVQCGAGTCCCAISLWLRLRMCTPLRGREGEC	MRGATRVSMLLLVTTVSDCAVITGACERDVQCGAGTCCCAISLWLRLRMCTPLRGREGEC	HPGSHKVPPFRKPKHHTCPCLPNLLCSRPPDGRYRCSMDLKNINF	HPGSHKVPPFRKPKHHTCPCLPNLLCSRPPDGRYRCSMDLKNINF
105	105	105	105	105


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RESULT 14
US-09-886-242A-2
; Sequence 2, Application US/09886242A
; Patent No. US20020172678A1
; GENERAL INFORMATION:
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: EG-VEGF NUCLEIC ACIDS AND POLYPEPTIDES
; TITLE OF INVENTION: AND METHODS OF USE
; FILE REFERENCE: GENENT.1516A
; CURRENT APPLICATION NUMBER: US/09/886,242A
; CURRENT FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 60/230,978
; PRIOR FILING DATE: 2000-09-07
; PRIOR APPLICATION NUMBER: US 60/213,637
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/096,146
; PRIOR FILING DATE: 1998-08-11
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: PCT/US00/04914
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: 1999-06-02
; PRIOR APPLICATION NUMBER: US 09/709,238
; PRIOR FILING DATE: 2000-11-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
US-09-886-242A-2

Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGRATRVSTMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRMCTPLGREGERC 60
Db 1 MGRATRVSTMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRMCTPLGREGERC 60

QY 61 HPGSHKVPFRKRKHHTCPLNLLCSRPDPGGRYCSMDLKNINF 105
Db 61 HPGSHKVPFRKRKHHTCPLNLLCSRPDPGGRYCSMDLKNINF 105

RESULT 15
US-09-989-293A-371
; Sequence 371, Application US/09989293A
; Patent No. US2002017164A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
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; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
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; PRIOR APPLICATION NUMBER: 60/091478
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; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
Db 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
Qy 61 HPGSHKVPFFRKHKHTCPLNLLCSRFPPDGRYRCSMDLNINF 105
Db 61 HPGSHKVPFFRKHKHTCPLNLLCSRFPPDGRYRCSMDLNINF 105

Search completed: November 1, 2005, 15:06:34
Job time : 173 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: November 1, 2005, 14:41:39 ; Search time 39 Seconds
(without alignments)
259.045 Million cell updates/sec

Title: US-10-027-603-2

Perfect score: 589

Sequence: 1 MRGATRVSIMLLLVTSQCA.....CSRFPDGRYRCMDLKNINF 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR 79:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	100.5	17.1	350	JC7188	REIC protein - hum
2	88.5	15.0	640	T08179	LRG5 protein - Chl
3	83	14.1	1101	T16840	hypothetical prote
4	81	13.8	1964	T09059	notch4 - mouse
5	79	13.4	112	XLHU	collipase precursor
6	77.5	13.2	473	A56175	adhesive plaque pr
7	77	13.1	251	A55035	cysteine-rich prot
8	75.5	12.8	1574	T13954	MEGF6 protein - ra
9	75	12.7	734	JCA4861	fertilin beta cha
10	75	12.7	2318	S45306	notch 3 protein -
11	75	12.7	2531	T31070	notch homolog - se
12	74	12.6	112	I51909	collipase precursor
13	74	12.6	1620	T27283	hypothetical prote
14	73	12.4	461	A35356	tumor necrosis fac
15	73	12.4	3075	T14458	laminin alpha-1 ch
16	72.5	12.3	643	T25473	hypothetical prote
17	72.5	12.3	2871	A47221	fibillin I - bovi
18	72.5	12.3	3002	1 MMEFB2	laminin gamma-1 ch
19	72	12.2	1639	1 A47221	fibillin I - bovi
20	71.5	12.1	591	2 A48141	acroganin - guine
21	71.5	12.1	601	2 B36346	fibulin 1 precursor
22	71.5	12.1	683	2 C36346	fibulin 1 precursor
23	71.5	12.1	1178	1 A39804	thrombospondin pre
24	71.5	12.1	1854	2 T13576	hypothetical prote
25	71	12.1	286	2 S34665	collagen, cuticula
26	71	12.1	593	1 GHU	granulin precursor
27	70.5	12.0	1847	2 T18308	probable vitellogen
28	70.5	12.0	2871	2 A55624	fibillin-1 precursor
29	69.5	11.8	802	2 T24293	hypothetical prote

30	69.5	11.8	949	2	T24294	hypothetical prote
31	69.5	11.8	2352	2	T30201	Notch homolog prot
32	69.5	11.8	4545	1	S25111	alpha-2-macroglobu
33	69	11.7	2918	2	A54105	fibillin-2 precursor
34	69	11.7	3133	2	SS2093	hemocytin - silkwo
35	69	11.7	3712	2	S18253	laminin alpha-1 ch
36	68.5	11.6	728	2	I50719	C-Delta-1 - chicke
37	68.5	11.6	850	2	T14450	serine/threonine k
38	68.5	11.6	884	2	T18649	hypothetical prote
39	68.5	11.6	1172	2	A42587	thrombospondin 2 p
40	68.5	11.6	1376	2	G00043	osteonidogen - hum
41	68	11.5	112	2	A46717	collipase precursor
42	68	11.5	345	2	T25138	hypothetical prote
43	68	11.5	358	2	T25137	hypothetical prote
44	68	11.5	427	1	GQHUN	nerve growth facto
45	68	11.5	547	2	A33901	mannosyl-oligosacc

ALIGNMENTS

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JC7188
REIC protein - human
C:Species: Homo sapiens (man)
C>Date: 04-Mar-2000 #sequence_revision 04-Mar-2000 #text_change 11-May-2000
C:Accession: JC7188
R:Teugi, T.; Miyazaki, M.; Sakaguchi, M.; Inoue, Y.; Namba, M.
Biochem. Biophys. Res. Commun. 268, 20-24, 2000
A>Title: A REIC gene shows down-regulation in human immortalized cells and human tumor-
A:Reference number: JC7188; MUID:20119095; PMID:10652205
A:Accession: JC7188
A:Molecule type: mRNA
A:Residues: 1-350 <TSU>
A:Cross-references: DBBJ:AB034203
A:Experimental source: heart
C:Comment: This protein is a secreted glycoprotein for head induction in amphibian embryo,
C:Genetics:
A:Gene: reic
A:Superfamily: human REIC protein
C:Keywords: cardiac muscle; coiled coil; glycoprotein; heart; tumor

Query Match 17.1%; Score 100.5; DB 2; Length 350;
Best Local Similarity 37.7%; Pred. No. 0.0089;
Matches 26; Conservative 3; Mismatches 29; Indels 11; Gaps 4;
QY 26 CERDVQCGAGTCCATSLWLRL--RMCTPLGREGGECH-PGSHKVYFFPKRKH-----HT 77
DB 208 CDNRDCQCPGLCCAFQ---RGLLPVCTPLPVEGELCHDPASRLDLITWLELPDGLDR 264

QY 78 CCLPLNLLC 86

DB 265 CPCASGLLC 273

RESULT 2

T08179
LRG5 protein - Chlamydomonas reinhardtii
C:Species: Chlamydomonas reinhardtii
C>Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C:Accession: T08179
R:Gloeckner, G.; Beck, C.F.
submitted to the EMBL Data Library, October 1996
A:Description: Molecular characterization of a gene (LRG5) involved in blue light signal
A:Reference number: Z16399
A:Accession: T08179
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-640 <GLQ>
A:Cross-references: UNIPROT:Q96397; EMBL:U73817; NID:g1644369; PID:g1644370
C:Genetics:
A:Gene: LRG5

RESULT 6
A56175
adhesive plaque protein Mgf2 precursor - Mediterranean mussel
C:Species: Mytilus galloprovincialis (Mediterranean mussel)
C>Date: 27-Apr-1995 #sequence_revision 03-Oct-1995 #text_change 09-Jul-2004
C:Accession: A56175
R:Inoue, K.; Takeuchi, Y.; Miki, D.; Odo, S.
J. Biol. Chem. 270, 6698-6701, 1995
A:Title: Mussel adhesive plaque protein gene is a novel member of epidermal growth factor
A:Reference number: A56175; MUID:95204464; PMID:7896812
A:Accession: A56175
A:Molecule type: mRNA
A:Residues: 1-473 <INO>
A:Cross-references: UNIPROT:Q25464; GB:D43794; NID:g602767; PIDN:BAA07852.1; PID:dl00843
C:Keywords: duplication
F:1-17/Domain: signal sequence #status predicted <SIG>
F:387-419/Domain: EGF homology <EGF1>
F:429-460/Domain: EGF homology <EGF>
F:23,36,43,56,75,382,424,455,468,473/Modified site: 3',4'-dihydroxyphenylalanine (Tyr) #
Query Match 13.2%; Score 77.5; DB 2; Length 473;
Best Local Similarity 31.2%; Pred. No. 2.4; Mismatches 23; Indels 19; Gaps 7;
Matches 24; Conservative 11
QY 26 CERDVQCGAGTCCCAISLWRLGLRMCTPLGREGGECH-PGSHKVPFPRKRKHTC---PCL 81
DB 117 CEKNV-CSNPNC-----KNGKCSPLGKTYGKCTCGGYTGP---RCEVHACKPNPCK 165
QY 82 PNLLCSRFPDGR--YRC 96
DB 166 NKGRC--FPDGTGYRC 180
RESULT 7
A55035
cysteine-rich protein CRP1 - earthworm (Enchytraeus buchholzi)
C:Species: Enchytraeus buchholzi
C>Date: 14-Nov-1994 #sequence_revision 03-Nov-1995 #text_change 09-Jul-2004
C:Accession: A55035; S45034
R:Willuhn, J.; Schmitt-Wrede, H.P.; Greven, H.; Wunderlich, F.
J. Biol. Chem. 269, 24688-24691, 1994
A:Title: cDNA cloning of a cadmium-inducible mRNA encoding a novel cysteine-rich, non-me
A:Reference number: A55035; MUID:95014230; PMID:7929141
A:Accession: A55035
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-251 <WIL>
A:Cross-references: UNIPROT:Q24774; EMBL:X79344; NID:g488802; PIDN:CAA55899.1; PID:g4888
C:Superfamily: ultra-high-sulfur keratin
Query Match 13.1%; Score 77; DB 2; Length 251;
Best Local Similarity 30.9%; Pred. No. 1.6; Mismatches 45; Indels 4; Gaps 3;
Matches 25; Conservative 7
QY 17 SDCAVITGACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGGECHPGSHKVPFPRKRKH 76
DB 77 SQCKEKGCKKG--CKEG-CCAPKGVAGCGSGCKEKGCKGCTKRCGTKCGVE 133
QY 77 TCPCPLNLLCSRFPDGRYRCS 97
DB 134 DCPGSPCKCEK-GDCKVNC 153
RESULT 8
T13954
MEGF6 protein - rat
C:Species: Rattus norvegicus (Norway rat)
C>Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C:Accession: T13954
R:Nakayama, M.; Nakajima, D.; Nagase, T.; Nomura, N.; Seki, N.; Ohara, O.
Genomics 51, 27-34, 1998

A:Title: Identification of high-molecular-weight proteins with multiple EGF-like motifs
A:Reference number: Z14126; MUID:98360089; PMID:9693030
A:Accession: T13954
A:Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: mRNA
A:Residues: 1-1574 <NAK>
A:Cross-references: UNIPROT:O88281; EMBL:AB011532; NID:g3449293; PIDN:BAA32462.1; PID:g4151
A:Experimental source: strain Sprague-Dawley; brain
C:Genetics:
A:Gene: MEGF6
Query Match 12.8%; Score 75.5; DB 2; Length 1574;
Best Local Similarity 28.6%; Pred. No. 10; Mismatches 33; Indels 21; Gaps 4;
Matches 24; Conservative 6
QY 19 CAVITGAC-----ERDVQCGAGTCCCAISLWRLGLRMCTPLGREGGECHPGSHKVPFPRKR 73
DB 755 CHRVGTGECCLPFGKGTGDCGAD--CPEGRWGLGCQICACFACGHCAGCNP----- 801
QY 74 KHHTCPLNLLCSRFPDGRYRCS 97
DB 802 ETGTCLCLPFGVGSRCQD---TCS 822
RESULT 9
JC4861
fertilin beta chain - human
C:Species: Homo sapiens (man)
C>Date: 15-Aug-1996 #sequence_revision 18-Oct-1996 #text_change 09-Jul-2004
C:Accession: JC4861
R:Gupta, S.K.; Alves, K.; O'Neil Palladino, L.; Mark, G.E.; Hollis, G.F.
Biochem. Biophys. Res. Commun. 224, 318-326, 1996
A:Title: Molecular cloning of the human fertilin beta subunit.
A:Reference number: JC4861; MUID:96295488; PMID:8702389
A:Accession: JC4861
A:Molecule type: mRNA
A:Residues: 1-734 <GUP>
A:Cross-references: UNIPROT:Q99965; GB:U38805; NID:g4151118; PIDN:AAD04206.1; PID:g4151
C:Comment: This protein is an integral sperm membrane glycoprotein, and plays a role in
C:Superfamily: mouse meltrin alpha; disintegrin homology
C:Keywords: glycoprotein; integrin binding; transmembrane protein
F:382-734/Product: fertilin beta chain #status predicted <NAT>
F:382-467/Domain: disintegrin homology <DIS>
F:448-450/Region: integrin binding #status predicted
F:686-708/Domain: transmembrane #status predicted <TMW>
F:121,219,352,458,565/Binding site: carbohydrate (Asn) (covalent) #status predicted
Query Match 12.7%; Score 75; DB 2; Length 734;
Best Local Similarity 28.8%; Pred. No. 6.1; Mismatches 29; Indels 16; Gaps 3;
Matches 21; Conservative 7
QY 15 TVSDCAVITGAC-----ERDVQCGAGTCCCAISLWRLGLRMCTPLGREGGECHPGSHK 66
DB 401 TEQDCALIGETCCDIATCFKAGSNCAGPCCCLFMSKERNCRP---SFEC-----D 452
QY 67 VPFPRKRKHHTCP 79
DB 453 LPEYCNCGSSASCP 465
RESULT 10
S45306
notch 3 protein - mouse
C:Species: Mus musculus (house mouse)
C>Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004
C:Accession: S45306
R:Jardelli, M.; Dahlstrand, J.; Lendahl, U.
Mech. Dev. 46, 123-136, 1994
A:Title: The novel Notch homologue mouse Notch 3 lacks specific epidermal growth factor
A:Reference number: S45306; MUID:95001556; PMID:7918097
A:Accession: S45306
A:Status: preliminary
A:Molecule type: mRNA

A;Residues: 1-2318 <LAR>
A;Cross-references: UNIPROT:O61982; EMBL:X74760; NID:G483580; PIDN:CAA52776.1; PID:G48358
A;Superfamily: notch protein; ankyrin repeat homology; EGF homology
F:163-195/Domain: EGF homology <EGF1>
F:174-195/Domain: EGF homology <EGF1>
F:1854-885/Domain: EGF homology <EGF2>
F:1839-1871/Domain: ankyrin repeat homology <AN1>
F:1872-1904/Domain: ankyrin repeat homology <AN2>
F:1906-1938/Domain: ankyrin repeat homology <AN3>
F:1939-1971/Domain: ankyrin repeat homology <AN4>
F:1972-2004/Domain: ankyrin repeat homology <AN5>

Query Match 12.7%; Score 75; DB 2; Length 2318;
Best Local Similarity 28.1%; Pred. No. 16;
Matches 25; Conservative 5; Mismatches 25; Indels 34; Gaps 5;

QY 19 CAVITGACERDVQCGAGTCCALSLMLRLGLRMCTPLGREGEEC----- 60
Db 1287 CERVARS-RELQCPVGIPCCQQT--ARGPRACPPGLSGPSCRVSRSASGATNASCASA 1343

QY 61 ---HPGS-----HKVPFFRKXKHHHTCPLP 82
Db 1344 PCLHGSGCLFVQSVPFER-----CVCAP 1366

RESULT 11
T31070
notch homolog - sea urchin (Lytechinus variegatus)
C;Species: Lytechinus variegatus (variegated urchin)
C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 31-Jan-2000
A;Reference number: Z20966; MUID:97454256; PMID:9310331
A;Accession: T31070
R;Sherwood, D.R.; McClay, D.R.
Development 124, 3363-3374, 1997
A;Title: Identification and localization of a sea urchin Notch homologue: insights into
A;Reference number: Z20966; MUID:97454256; PMID:9310331
A;Accession: T31070
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: mRNA
A;Residues: 1-2531 <SHE>
A;Cross-references: EMBL:AF000634; NID:G2570350; PID:G2570351; PIDN:AAB82088.1
A;Superfamily: notch protein; ankyrin repeat homology; EGF homology

Query Match 12.7%; Score 75; DB 2; Length 2531;
Best Local Similarity 29.9%; Pred. No. 17;
Matches 23; Conservative 8; Mismatches 32; Indels 14; Gaps 5;

QY 22 ITGACERDVQCGAGTCCAI--SLWLRLGLRMCTPLGREGECHPGSHKVPFFRKXKHHHTCP 79
Db 120 VDNVCKLEPCQNGGTCLRTTSLMDYEC-FCTP-ANTGENCTDDNHCV-----SNP 168

QY 80 CLPNLLCSRFDPGRYRC 96
Db 169 CLNGAVCTSSSDG-YSC 184

RESULT 12
I51909
collipase precursor - rat
N;Alternate names: procollipase
C;Species: Rattus norvegicus (Norway rat)
C;Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 09-Jul-2004
A;Reference number: Z20966; MUID:97454256; PMID:9310331
A;Accession: I51909; A34623
R;Payne, R.M.; Sims, H.F.; Jennings, M.L.; Lowe, M.E.
Am. J. Physiol. 266, G914-G921, 1994
A;Title: Rat pancreatic lipase and two related proteins: enzymatic properties and mRNA
A;Reference number: I51909; MUID:94262798; PMID:8203536
A;Accession: I51909
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: mRNA
A;Residues: 1-112 <PAY>
A;Cross-references: UNIPROT:P17084; GB:M58370; NID:G203504; PIDN:AAA20505.1; PID:G203505
R;Wicker, C.; Fuigerver, A.
Biochem. Biophys. Res. Commun. 167, 130-136, 1990

A;Title: Rat pancreatic colipase mRNA: nucleotide sequence of a cDNA clone and nutrition.
A;Reference number: A34623; MUID:90179738; PMID:2129524
A;Accession: A34623
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-17, 'V', '19-112 <WIC>
A;Cross-references: GB:M33333; NID:G203502; PIDN:AAA40943.1; PID:G203503
C;Superfamily: colipase
C;Keywords: lipid digestion; lipid hydrolysis; pancreas
F:1-17/Domain: signal sequence #status predicted <SIG>
F:18-112/Product: colipase #status predicted <MAT>

Query Match 12.6%; Score 74; DB 2; Length 112;
Best Local Similarity 25.8%; Pred. No. 1.6;
Matches 24; Conservative 10; Mismatches 39; Indels 20; Gaps 4;

QY 6 RVSIMLLLVTVSDCAVITG-----ACERDVQCGAGTCCALSLMLRLGLRMCTPL 53
Db 2 KVLVLLVTLVAVAYAAPGRGLFINLEDGEICVNSMQC-KSRCCQHDHIL-GIARCTHK 59

QY 54 GREGECHPGSHKVPFFRKXKHHHTCPLNLLC 86
Db 60 AMENSECSPKTLGIYR-----CPCERGLTC 86

RESULT 13
T27283
hypothetical protein Y64G10A.f - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
A;Accession: T27283
R;Ainscough, R.
submitted to the EMBL Data Library, September 1999
A;Reference number: Z20336
A;Accession: T27283
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-1620 <WIL>
A;Cross-references: EMBL:AL110498; NID:e1542303; PIDN:CAB54471.1; CESP:Y64G10A.f
A;Experimental source: clone Y64G10A
C;Genetics:
A;Gene: CESP:Y64G10A.f
A;Introns: 77/1; 116/1; 198/1; 282/1; 365/1; 425/1; 466/1; 548/1; 559/1; 601/1; 625/1; 7

Query Match 12.6%; Score 74; DB 2; Length 1620;
Best Local Similarity 27.5%; Pred. No. 15;
Matches 22; Conservative 4; Mismatches 16; Indels 38; Gaps 4;

QY 16 VSDCAVITGACERDVQCGAG-----TCCALSLMLRLGLRMCTPLGREGECHPGSHKVP 68
Db 1114 VARCDHVTGEC-----RCPAGWTGPDQQTSC-----PLGRHGECC----- 1148

QY 69 FFRKXKHHHTCPLNLLCSR 88
Db 1149 -----RHSCQCSNGASCDCR 1162

RESULT 14
A35356
tumor necrosis factor receptor 2 precursor [validated] - human
N;Alternate names: 75K tumor necrosis factor receptor; TNF receptor type 2
C;Species: Homo sapiens (man)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
A;Accession: A35356; A36475; A48416; A36007; A23666; B35010; I38094
R;Smith, C.A.; Davis, T.; Anderson, D.; Solam, L.; Beckmann, M.P.; Jerzy, R.; Dower, S.K.
Science 248, 1019-1023, 1990
A;Title: A receptor for tumor necrosis factor defines an unusual family of cellular and
A;Reference number: A35356; MUID:90260639; PMID:2160731
A;Accession: A35356
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-461 <SMI>
A;Cross-references: UNIPROT:P20333; GB:M32315; NID:G189185; PIDN:AAA59929.1; PID:G189186

Query Match	12.4%	Score 73;	DB 1;	Length 461;
Best Local Similarity	29.5%	Pred. No. 6.6;		

F;1150-1135/Domain: IIVa <DO4A>
F;1160-1361/Domain: IIVa <DO4A>
F;1362-1553/Domain: IIVa <DO3A>

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 1, 2005, 14:41:04 ; Search time 177 Seconds
(without alignments)
303.776 Million cell updates/sec

Title: US-10-027-603-2

Perfect score: 589

Sequence: 1 MRGATRVSIMLLLVTVSDCA.....CSRFPDGRYCRSMDLKNINF 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt_03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	589	100.0	105	1 PRK1_HUMAN	P58294 homo sapien
2	588	99.8	105	2 Q8TC69	Q8tc69 homo sapien
3	545	92.5	105	1 PRK1_RAT	Q8r414 rattus norv
4	432	73.3	81	2 Q8K457	Q8k457 mus musculu
5	318	54.0	108	2 Q863H4	Q863h4 bos taurus
6	310.5	52.7	81	1 VPRA_DENPO	P25687 dendroaspis
7	298.5	50.7	96	2 Q8JFQ0	Q8jfq0 bombina max
8	298	50.6	107	1 PRK2_RAT	Q8r413 rattus norv
9	298	50.6	128	2 Q8G3H5	Q8g3h5 bos taurus
10	287.5	48.8	96	1 BV8_BOMVA	Q9pw66 bombina var
11	282.5	48.0	129	1 PRK2_HUMAN	Q9hc23 homo sapien
12	277.5	47.1	128	1 PRK2_MOUSE	Q9qxu7 mus musculu
13	277.5	47.1	128	2 Q6V8J7	Q6v8j7 rattus norv
14	274.5	46.6	96	2 Q8JFE6	Q8jfe6 bombina max
15	273.5	46.4	96	2 Q8JFX8	Q8jfx8 bombina max
16	273.5	46.4	96	2 Q8JFY1	Q8jfy1 bombina max
17	269.5	45.8	96	2 Q8QFX9	Q8qfx9 bombina max
18	269.5	45.8	96	2 Q8JFY2	Q8jfy2 bombina max
19	266.5	45.2	96	2 Q8JFY2	Q8jfy2 bombina max
20	112	19.0	96	2 Q8UYX3	Q8uux3 gallus gall
21	108.5	18.4	221	2 Q8VEJ3	Q8vej3 mus musculu
22	107.5	18.3	224	1 DKK4_HUMAN	Q9ubt3 homo sapien
23	107.5	18.3	350	1 DKK3_CHICK	Q90b39 gallus gall
24	104	17.7	255	2 Q9DDA4	Q9dda4 xenopus lae
25	102	17.3	259	1 DKK2_HUMAN	Q9ubt2 homo sapien
26	101	17.1	259	1 DKK2_MOUSE	Q9gyz8 mus musculu
27	101	17.1	259	2 Q8BFW0	Q8bfw0 m mus muscu
28	101	17.1	272	1 DKX1_MOUSE	O54908 mus musculu
29	101	17.1	272	2 Q8OUL5	Q8oul5 mus musculu
30	100.5	17.1	171	2 O43532	O43532 homo sapien
31	100.5	17.1	215	2 Q8N294	Q8n294 homo sapien

32	100.5	17.1	350	1 DKK3_HUMAN	Q9ubp4 homo sapien
33	99.5	16.9	277	2 Q9ES33	Q9es33 rattus norv
34	98.5	16.7	349	1 DKK3_MOUSE	Q9qun9 mus musculu
35	97	16.5	266	1 DKX1_HUMAN	Q94907 homo sapien
36	96.5	16.4	268	2 Q6PVU5	Q6pvu5 oryctolagus
37	95.5	16.2	259	2 Q57464	O57464 xenopus lae
38	94.5	16.0	350	2 Q6PQ81	Q6pq81 homo sapien
39	94	16.0	240	2 Q9FWH3	Q9fwh3 brachydanio
40	90.5	15.4	425	1 CND0_MOUSE	Q8bu04 mus musculu
41	90.5	15.4	425	2 Q642A8	Q642a8 rattus norv
42	88.5	15.0	640	2 Q96397	Q96397 chlamydomon
43	86	14.6	241	2 Q9W6D9	Q9w6d9 brachydanio
44	85	14.4	107	1 COL_RABIT	P42890 oryctolagus
45	83	14.1	708	2 P87363	P87363 gallus gall

ALIGNMENTS

RESULT 1				
ID	PRK1_HUMAN	STANDARD;	PRT;	105 AA.
AC	P58294;			
DT	16-OCT-2001 (Rel. 40, Created)			
DT	16-OCT-2001 (Rel. 40, Last sequence update)			
DT	25-JAN-2005 (Rel. 46, Last annotation update)			
DE	Prokineticin 1 precursor (Endocrine-gland-derived vascular endothelial growth factor) (EG-VBGF) (Mambakine) (UNQ600/PRO1186).			
GN	Name=PROK1;			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]_TaxID=9606;			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=21160229; PubMed=11259612;			
RA	Li M., Bullock C.M., Knauer D.J., Ehler F.J., Zhou Q.Y.;			
RT	"Identification of two prokineticin cDNAs: recombinant proteins potentially contract gastrointestinal smooth muscle.";			
RL	Mol. Pharmacol. 59:692-698(2001).			
RN	[2]			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=21419730; PubMed=11528470; DOI=10.1038/35091000;			
RA	LeCouter J., Kowalski J., Foster J., Hass P., Zhang Z.,			
RA	Dillard-Telm L., Frantz G., Rangel L., DeGuzman L., Keller G.-A.,			
RA	Peale F., Gurney A., Hillan K.J., Ferrara N.;			
RT	"Identification of an angiogenic mitogen selective for endocrine gland endothelium.";			
RL	Nature 412:877-884(2001).			
RN	[3]			
RP	SEQUENCE FROM N.A.			
RA	Fraser C.;			
RT	"Mambakine, a snake venom related endocrine hormone that controls macrophages.";			
RL	Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.			
RN	[4]			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;			
RA	Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,			
RA	Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,			
RA	Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,			
RA	Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,			
RA	Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,			
RA	Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,			
RA	Vandlen R., Watanabe C., Wiedand D., Woods K., Xie M.-H., Yansura A.,			
RA	Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,			
RT	"The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment.";			
RL	Genome Res. 13:2265-2270(2003).			
RN	[5]			
RP	SEQUENCE OF 20-34.			

```
RX PubMed=15340161; DOI=10.1110/ps.04682504;
RA Zhang Z., Henzel W.J.;
RT "Signal peptide prediction based on analysis of experimentally
RT verified cleavage sites.";
RL FUNCTION: Potently contract gastrointestinal (GI) smooth muscle.
CC -!- PROTEIN: Potently contract gastrointestinal (GI) smooth muscle.
CC Induces proliferation, migration and fenestration (the formation
CC of membrane discontinuities) in capillary endothelial cells
CC derived from endocrine glands. Has little or no effect on a
CC variety of other endothelial and non-endothelial cell types.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Expressed in the steroidogenic glands, ovary,
CC testis, adrenal and placenta.
CC -!- SIMILARITY: Belongs to the prokineticin family.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to licens@isb-sib.ch).
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DR EMBL; AF333024; AAK49918.1; -.
DR EMBL; AY029225; AAK33111.1; -.
DR EMBL; AY358683; AAK9046.1; -.
DR HSSP; P25687; 1IWT.
DR Genew; HGNC:18454; PROK1.
DR H-InvDB; HIX0000868; -.
DR MIM; 606233; -.
DR InterPro; IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
KW Direct protein sequencing; Growth factor; Mitogen; Signal.
FT SIGNAL 1 19
FT CHAIN 20 105 Prokineticin 1.
FT DISULFID 26 38 By similarity.
FT DISULFID 32 50 By similarity.
FT DISULFID 37 78 By similarity.
FT DISULFID 60 86 By similarity.
FT DISULFID 80 96 By similarity.
FT DISULFID 96 96 By similarity.
SQ SEQUENCE 105 AA; 11715 MW; C7E3FDE30EFB416A CRC64;
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Query Match 100.0%; Score 589; DB 1; Length 105;
Best Local Similarity 100.0%; Pred. No. 2.9e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MRGATRVSIMLLLVTSQCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLRGREGEC 60
Db 1 MRGATRVSIMLLLVTSQCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLRGREGEC 60

QY 61 HPGSHKVPFFRKRKHHTCPCLPNLLCSRFPPDGRYRCSDMLKNINF 105
Db 61 HPGSHKVPFFRKRKHHTCPCLPNLLCSRFPPDGRYRCSDMLKNINF 105

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RESULT 2
QSTC69 PRELIMINARY; PRT; 105 AA.
ID Q8TC69
AC Q8TC69;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Prokineticin 1.
GN Name=PROK1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX MEDLINE=23388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
```

```
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Datchenko L., Marusina K., Farmer A.A., Rubin G.W., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Boak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RA "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
```

[2]

RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC025399; AAH25399.1; -.
DR HSSP; P25687; 1IWT.
DR InterPro; IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
SQ SEQUENCE 105 AA; 11729 MW; E570FDE30EFB52D2 CRC64;

```
Query Match 99.8%; Score 588; DB 2; Length 105;
Best Local Similarity 99.0%; Pred. No. 3.7e-52;
Matches 104; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 MRGATRVSIMLLLVTSQCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLRGREGEC 60
Db 1 MRGATRVSIMLLLVTSQCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLRGREGEC 60

QY 61 HPGSHKVPFFRKRKHHTCPCLPNLLCSRFPPDGRYRCSDMLKNINF 105
Db 61 HPGSHKVPFFRKRKHHTCPCLPNLLCSRFPPDGRYRCSDMLKNINF 105

```
RESULT 3
PRK1_RAT STANDARD; PRT; 105 AA.
ID PRK1_RAT
AC Q8R414;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Prokineticin 1 precursor (Endocrine-gland-derived vascular endothelial
DE growth factor) (EG-VEGF).
GN Name=Prok1;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RX MEDLINE=22050031; PubMed=12054613; DOI=10.1016/S0006-291X(02)00239-5;
RA Maeda Y., Takatsu Y., Terao Y., Kumano S., Ishibashi Y., Suenaga M.,
RA Abe M., Fukusumi S., Watanabe T., Shintani Y., Yamada T., Hinuma S.,
RA Inatomi N., Ohtaki T., Onda H., Fujino M.;
RT "Isolation and identification of EG-VEGF/prokineticins as cognate
RT ligands for two orphan G-protein-coupled receptors.";
RL Biochem. Biophys. Res. Commun. 293:396-402(2002).
```

-!- FUNCTION: Potently contract gastrointestinal (GI) smooth muscle. Induces proliferation, migration and fenestration (the formation of membrane discontinuities) in capillary endothelial cells derived from endocrine glands. Has little or no effect on a variety of other endothelial and non-endothelial cell types (By similarity).

```
CC -I- SUBCELLULAR LOCATION: Secreted (By similarity).
CC -I- SIMILARITY: Belongs to the prokinectin family.
CC -----
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CC -----
CC EMBL; AY089983; AAM09104.1; -.
CC HSP; P25687; IIMT.
CC RGD; 620898; Prok1.
CC InterPro; IPR009523; Prokinectin.
CC Pfam; PF06607; Prokinectin; 1.
CC Growth factor; Mitogen; Signal.
CC SIGNAL 1 19 Potential.
CC CHAIN 20 105 Prokinectin 1.
CC DISULFID 26 38 By similarity.
CC DISULFID 32 50 By similarity.
CC DISULFID 37 78 By similarity.
CC DISULFID 60 86 By similarity.
CC DISULFID 80 96 By similarity.
CC SEQUENCE 105 AA; 11642 MW; 8DFC4212251C5B6 CRC64;

Query Match 92.5%; Score 545; DB 1; Length 105;
Best Local Similarity 89.5%; Pred. No. 8.6e-48;
Matches 94; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

QY 1 MGRATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGRGREGRC 60
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MGRGVQVFMILLATVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGRGREGRC 60
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 HPGSHKVPFRKXKHTTCPLNLLCSRPDGRYCSMDLKNINF 105
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 HPGSHKIPFRKQHHCTPCSPSLCSRPDGRYCSMDLKNINF 105
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 4
Q8K457 PRELIMINARY; PRT; 81 AA.
ID Q8K457;
AC Q8K457;
DT 01-OCT-2002 (TREMBLrel. 22, Created)
DT 01-OCT-2002 (TREMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE Prokinectin 1 (Fragment).
GN Name=Prok1; Synonyms=Pkl;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6;
RX MEDLINE=2022134; PubMed=12024206; DOI=10.1038/417405a;
RA Cheng M.Y., Bullock F.M., Li C., Lee A.G., Bermak J.C., Belluzzi J.,
RA Weaver D.R., Leslie F.M., Zhou Q.Y.;
RT "Prokinectin 2 transmits the behavioural circadian rhythm of the
RT suprachiasmatic nucleus.";
RL Nature 417:405-410(2002).
DR EMBL; AF487281; AAM49573.1; -.
DR HSP; P25687; IIMT.
DR MGD; MGI:2180370; Prok1.
DR GO; GO:0005576; C:extracellular; IDA.
DR GO; GO:000187; P:activation of MAPK; IDA.
DR GO; GO:0007623; P:circadian rhythm; TAS.
DR GO; GO:0008284; P:positive regulation of cell proliferation; IDA.
DR GO; GO:0045765; P:regulation of angiogenesis; IDA.
DR InterPro; IPR009523; Prokinectin.
DR Pfam; PF06607; Prokinectin; 1.
DR NON_TER 1
SQ SEQUENCE 81 AA; 9192 MW; 7BBE3EC6B16A8011 CRC64;
```

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Query Match 73.3%; Score 432; DB 2; Length 81;
Best Local Similarity 87.7%; Pred. No. 2e-36;
Matches 71; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 25 ACERDVQCGAGTCCCAISLWRLGRLMCTPLGRGREGCHPGSHKVPFRKXKHTTCPLNLL 84
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 ACERDIQCGAGTCCCAISLWRLGRLMCTPLGRGREGCHPGSHKIPFRKQHHCTPCSPSL 60
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 85 LCSRPDGRYCSMDLKNINF 105
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 LCSRPDGRYCSMDLKNINF 81
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 5
Q863H4 PRELIMINARY; PRT; 108 AA.
ID Q863H4;
AC Q863H4;
DT 01-JUN-2003 (TREMBLrel. 24, Created)
DT 01-JUN-2003 (TREMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE Bv8/prokinectin 2-like protein splice variant.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX MEDLINE=22612805; PubMed=12728244; DOI=10.1038/sj.embor.embor830;
RA Kaser A., Winklmayr M., Lepperdinger G., Kreil G.;
RT "The AVIT protein family.";
RL EMBO Rep. 4:469-473(2003).
DR EMBL; AY192558; AAP31907.1; -.
DR HSP; P25687; IIMT.
DR InterPro; IPR009523; Prokinectin.
DR Pfam; PF06607; Prokinectin; 1.
SQ SEQUENCE 108 AA; 11672 MW; C00410399A9B215E CRC64;

Query Match 54.0%; Score 318; DB 2; Length 108;
Best Local Similarity 51.9%; Pred. No. 1e-24;
Matches 54; Conservative 15; Mismatches 27; Indels 8; Gaps 1;

QY 1 MGRATRVSIMLLLV-----TVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTP 52
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MRSRCARLLLLLLPPLLLTPPAGDAVITGACDRDPQCGGCMCAVSLWVKSIRICTP 60
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 53 LGREGEGCHPGSHKVPFRKXKHTTCPLNLLCSRPDGRYRC 96
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 MGKVGDSCHPMTKVPFLGLRRMHHTCPCLPLGLACSRTSFNRYTC 104
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 6
VPR4_DENPO STANDARD; PRT; 81 AA.
ID VPR4_DENPO
AC P25687;
DT 01-MAY-1992 (Rel. 22, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Intestinal toxin 1 (Mit 1) (Venom protein A).
OS Dendroaspis polylepis polylepis (Black mamba).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Elapidae; Elapinae; Dendroaspis.
OX NCBI_TaxID=8620;
RN [1]
RP SEQUENCE.
RX TISSUE=Venom;
RX MEDLINE=81115818; PubMed=7461607;
RA Joubert F.J., Strydom D.J.;
RT "Snake venom. The amino acid sequence of protein A from Dendroaspis
RT polylepis polylepis (black mamba) venom.";
```

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RL Hoppe-Seyler's Z. Physiol. Chem. 361:1787-1794 (1980).
RN [2]
RP CHARACTERIZATION.
RX MEDLINE=20036442; PubMed=10567694; DOI=10.1016/S0014-5793(99)01459-3;
RA Schweitz H., Pascaud P., Diocot S., Moirier D., Lazdunski M.;
RT "MT1, a black mamba toxin with a new and highly potent activity on
RT intestinal contraction.";
RL FEBS Lett. 461:183-188 (1998).
RN [3]
RP STRUCTURE BY NMR.
RC TISSUE=Venom;
RA Boisbouvier J., Albrand J.-P., Blackledge M., Jaquinod M.,
RA Schweitz H., Lazdunski M., Marion D.;
RT "A structural homologue of colipase in black mamba venom revealed by
RT NMR floating disulphide bridge analysis.";
RL J. Mol. Biol. 283:205-219 (1998).
CC -!- FUNCTION: Potently contract gastrointestinal (GI) smooth muscle.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the prokinectin family.
DR PDB; 1MT; NMR; @=1-81.
DR InterPro; IPR009523; Prokinectin.
DR Pfam; PF06607; Prokinectin; 1.
KW 3D-structure; Direct protein sequencing; Toxin.
FT DISULFID 7 19
FT DISULFID 13 31
FT DISULFID 18 60
FT DISULFID 41 68
FT DISULFID 62 78
FT VARIANT 73 73 P -> Q (in protein A').
FT CONFLICT 18 18 C -> S (in Ref. 1).
FT CONFLICT 22 22 S -> C (in Ref. 1).
SQ SEQUENCE 81 AA; 8645 MW; 6C01368841572044 CRC64;

Query Match 52.7%; Score 310.5; DB 1; Length 81;
Best Local Similarity 62.8%; Pred. No. 4.5e-24;
Matches 49; Conservative 14; Mismatches 14; Indels 1; Gaps 1;

QY 20 AVITGACERDVQCGAGTCCATSLWLRGLRMCTPLGREGSECHPGSHKVPFRKXK-HHTC 78
DB 1 AVITGACERDLQCGGTGTCVAVSLWIKSVRVCTPVGTGDCHPASHKTFPSGQRKQHHTC 60

QY 79 PCLNLLCSRPDPGRYRC 96
DB 61 PCAPNLACVQTSPPKFKC 78

RESULT 7
Q8JFQ0 PRELIMINARY; PRT; 96 AA.
AC Q8JFQ0;
DT 01-OCT-2002 (TRENBLrel. 22, Created)
DT 01-OCT-2002 (TRENBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TRENBLrel. 26, Last annotation update)
DE Bv8 protein homolog 2.
OS Bombina maxima (Giant fire-bellied toad) (Chinese red belly toad).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.
OX NCBI_TaxID=161274;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin secretions;
RX MEDLINE=22515712; PubMed=12628381; DOI=10.1016/S1096-4959(02)00294-4;
RA Lai R., Liu H., Lee W.H., Zhang Y.;
RT "Two novel Bv8-like peptides from skin secretions of the toad Bombina
RT maxima.";
RL Comp. Biochem. Physiol. B, Biochem. Mol. Biol. 134:509-514 (2003).
DR EMBL; AF411091; AAN03822.1; -.
DR HSSP; P25687; 1INT.
DR InterPro; IPR009523; Prokinectin.
DR Pfam; PF06607; Prokinectin; 1.
SQ SEQUENCE 96 AA; 10198 MW; EC4EAA5EFA49B2F0 CRC64;
```

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Query Match 50.7%; Score 298.5; DB 2; Length 96;
Best Local Similarity 53.6%; Pred. No. 8.8e-23;
Matches 52; Conservative 16; Mismatches 28; Indels 1; Gaps 1;

QY 1 MRGATRVYSIMLLVTSVCAVITGACERDVQCGAGTCCATSLWLRGLRMCTPLGREGSEC 60
DB 1 MKCPAQIIVLLVIAFSGHGAIVITGACDRDVQCGSGTCCCAASLWSRNFRCVPLGNGBEC 60

QY 61 HPGSHKVPFRKXKHHCTPCPLNLLCSRPDPGRYRC 97
DB 61 HPASHKVPYNGKRLSSLCPCCKSLGTCCKSGE-KFQCS 96

RESULT 8
PK2_RAT STANDARD; PRT; 107 AA.
AC Q8R4I3;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Prokinectin 2 precursor (PK2).
GN Name=Prok2; Synonyms=Bv8;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RX MEDLINE=22050031; PubMed=12054613; DOI=10.1016/S0006-291X(02)00239-5;
RA Masuda Y., Takatsu Y., Texao Y., Kumano S., Ishibashi Y., Suenaga M.,
RA Abe M., Fukusumi S., Watanabe T., Shintani Y., Yamada T., Hinuma S.,
RA Inatomi N., Ohtaki T., Onda H., Fujino M.;
RT "Isolation and identification of EG-VEGF/prokineticins as cognate
RT ligands for two orphan G-protein-coupled receptors.";
RL Biochem. Biophys. Res. Commun. 293:396-402 (2002).
RN [2]
RP EFFECT ON CIRCADIAN LOCOMOTOR ACTIVITY.
RX MEDLINE=22022134; PubMed=12024206; DOI=10.1038/417405a;
RA Cheng M.Y., Bullock C.M., Li C., Lee A.G., Bernak J.C., Belluzzi J.,
RA Weaver D.R., Leslie F.M., Zhou Q.-Y.;
RT "Prokinectin 2 transmits the behavioural circadian rhythm of the
RT suprachiasmatic nucleus.";
RL Nature 417:405-410 (2002).
CC -!- FUNCTION: May function as an output molecule from the
CC suprachiasmatic nucleus (SCN) that transmits behavioral circadian
CC rhythm. May also function locally within the SCN to synchronize
CC output. Potently contracts gastrointestinal (GI) smooth muscle (By
CC similarity).
CC -!- SUBCELLULAR LOCATION: Secreted (By similarity).
CC -!- TISSUE SPECIFICITY: Expressed at high levels in testis and at
CC lower levels in brain, lung, ovary, spleen, thymus and uterus.
CC -!- INDUCTION: Activated by CLOCK and BMAL1 heterodimers and light;
CC inhibited by period genes (PER1, PER2 and PER3) and cryptochrome
CC genes (CRY1 and CRY2) (Probable).
CC -!- SIMILARITY: Belongs to the prokinectin family.
CC
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CC
DR EMBL; AY089984; AAM09105.1; -.
DR HSSP; P25687; 1INT.
DR RGD; 620280; Bv8.
DR InterPro; IPR009523; Prokinectin.
DR Pfam; PF06607; Prokinectin; 1.
KW Biological rhythms; Neuropeptide; Signal.
RN SIGNAL 1 26 Potential.
RN CHAIN 27 107 Prokinectin 2.
FT
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FT DISULFID 33 45 By similarity.
FT DISULFID 39 57 By similarity.
FT DISULFID 44 85 By similarity.
FT DISULFID 67 93 By similarity.
FT DISULFID 87 103 By similarity.
SQ SEQUENCE 107 AA; 11594 MW; BDF316DCB5FED0 CRC64;

Query Match 50.6%; Score 298; DB 1; Length 107;
Best Local Similarity 54.0%; Pred. No. 1.1e-22;
Matches 47; Conservative 16; Mismatches 24; Indels 0; Gaps 0;

QY 10 MLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGRGECCHPGSHKVPF 69
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
D 17 LLTTPAGDAVITGACDKDSQCGGMCACVAISWKSIRICTPMQGVQDSCHPLTRKVPF 76
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 70 FRKHKHTCPCLNLLCSRPDPGRYRC 96
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
D 77 WGRMRHTCPCLPGLACLRISFNRFC 103
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 9
Q863H5 PRELIMINARY; PRT; 128 AA.
AC Q863H5;
DT 01-JUN-2003 (TREMblrel. 24, Created)
DT 01-JUN-2003 (TREMblrel. 24, Last sequence update)
DE Bv8/prokineticin 2-like protein.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-Testis;
RX MEDLINE=22812805; PubMed=12728244; DOI=10.1038/sj.embor.embor830;
RA Kaser A., Winklmayr M., Lepperdinger G., Kreil G.;
RT "The AVIT protein family.";
RL EMBL; AY192557; AAP31906.1; -.
DR HSSP; P25687; IIMT.
DR GO; GO:0005576; C:extracellular; ISS.
DR GO; GO:0001664; F:G-protein-coupled receptor binding; ISS.
DR GO; GO:000187; P:activation of MAPK; ISS.
DR GO; GO:0001525; P:angiogenesis; ISS.
DR GO; GO:0006916; P:anti-apoptosis; ISS.
DR GO; GO:0008283; P:cell proliferation; ISS.
DR GO; GO:0006935; P:chemotaxis; ISS.
DR GO; GO:0007204; P:cytosolic calcium ion concentration elevation; ISS.
DR GO; GO:0007186; P:G-protein coupled receptor protein signalin. . .; ISS.
DR GO; GO:0006954; P:inflammatory response; ISS.
DR GO; GO:0019233; P:perception of pain; ISS.
DR GO; GO:0045987; P:positive regulation of smooth muscle contra. . .; ISS.
DR GO; GO:0007283; P:spermatogenesis; ISS.
DR InterPro; IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
SQ SEQUENCE 128 AA; 14290 MW; C22CDBDBE40483EC CRC64;

Query Match 50.6%; Score 298; DB 2; Length 128;
Best Local Similarity 43.5%; Pred. No. 1.3e-22;
Matches 54; Conservative 15; Mismatches 27; Indels 28; Gaps 2;

QY 1 MRGATRVISMLLV-----TVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTP 52
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
D 1 MRSSRCARLLLLLLLLPLLLLTPAGDAVITGACDRDPQCGGMCACVAISLWKSIRICTP 60
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 53 LGREGECCHPGSH-----KVPFRKHKHTCPCLNLLCSRPDPG 92
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
D 61 MGKVGDSCHPMTRKQNHFGNGRQERRKRRKKKVPFLGRMHHTCPCLPGLACRSFSN 120
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 93 RYRC 96
   |||
```

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Db 121 RYTC 124

RESULT 10
BV8_BOMVA STANDARD; PRT; 96 AA.
AC Q9PM66;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Protein Bv8 precursor.
OS Bombina variegata (Yellow-bellied toad).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.
OX NCBI_TaxID=8348;
RN [1]
RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=99349621; PubMed=10422759; DOI=10.1016/S0014-2999(99)00229-0;
RA Mollay C., Wechselsberger C., Mignogna G., Negri L., Melchiorri P.,
RA Barra D., Kreil G.;
RT venom induce hyperalgesia in rats.;
RL Eur. J. Pharmacol. 374:189-196(1999).
CC -!- FUNCTION: Potently contract gastrointestinal (GI) smooth muscle.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the prokineticin family.
CC -----
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CC -----
DR EMBL; AF168790; AAD45816.1; -.
DR HSSP; P25687; IIMT.
DR InterPro; IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
KW Direct protein sequencing; Signal.
FT SIGNAL 1 19
FT CHAIN 20 96 Protein Bv8.
FT DISULFID 26 38 By similarity.
FT DISULFID 32 50 By similarity.
FT DISULFID 37 78 By similarity.
FT DISULFID 60 86 By similarity.
FT DISULFID 80 95 By similarity.
SQ SEQUENCE 96 AA; 10102 MW; A12490A7437609B4 CRC64;

Query Match 48.8%; Score 287.5; DB 1; Length 96;
Best Local Similarity 50.5%; Pred. No. 1.2e-21;
Matches 49; Conservative 18; Mismatches 29; Indels 1; Gaps 1;

QY 1 MRGATRVISMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGRGEC 60
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
D 1 MKCFAIVVLLVIAFSGHGVITGACDKDVQCGSGTGCCCAASAWSNRIRFCIPLNGSGEDC 60
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 61 HPGSHKVPFRKHKHTCPCLNLLCSRPDPGRYRC 97
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
D 61 HPASHKVPYDGRKRLSLCPCSKGLTCKSGSGB-KFKCS 96
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 11
PRX2_HUMAN STANDARD; PRT; 129 AA.
AC Q9HC23;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 25-JAN-2005 (Rel. 46, Last annotation update)
DE Prokineticin 2 precursor (PK2) (Protein Bv8 homolog).
DE Name=PROK2; Synonyms=BV8;
GN
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GO	GO:0007623; P:circadian rhythm; IDA.
GO	GO:0007204; P:cytosolic calcium ion concentration elevation; ISS.
GO	GO:0007186; P:G-protein coupled receptor protein signalin. . ; ISS.
GO	GO:0006954; P:inflammatory response; ISS.
DR	GO:0019233; P:perception of pain; ISS.
DR	GO:0045987; P:positive regulation of smooth muscle contra. . ; ISS.
GO	GO:0007283; P:spermatogenesis; ISS.
DR	InterPro; IPR009523; Prokineticin.
DR	Pfam; PF06607; Prokineticin; 1.
KW	Alternative splicing; Biological
FT	SIGNAL 1 26 Potential.
FT	CHAIN 27 128 Prokineticin 2.
FT	DISULFID 33 45 By similarity.
FT	DISULFID 39 57 By similarity.
FT	DISULFID 44 106 By similarity.
FT	DISULFID 67 114 By similarity.
FT	DISULFID 108 124 By similarity.
FT	VARSPLIC 74 94 Missing (in isoform 2).
FT	/FTId=VSP_005220.
FT	VARSPLOC 74 128 SHVANQRGRARRRRKRKEVPFWGRMHHTCPCLPGLAC
FT	LRTSFNRFLCKARK -> VSVCTGILGVPSH (in
FT	isoform 3).
FT	/FTId=VSP_005221.
SEQ	SEQUENCE 128 AA; 14185 MW; 5F08BA177FDB58C CRC64;
Query Match 47.1%; Score 277.5; DB 1; Length 128;	
Best Local Similarity 40.7%; Pred. No. 1.6e-20;	
Matches 50; Conservative 19; Mismatches 25; Indels 29; Gaps 2;	
QY	3 GATRVSIMLLVTV-----SDCAVITGACERDVQCAGTCCAISSLWLRLRMCTPLG 54
Db	2 GDPRCAPLILLLLLPLLTTPAGDAAVITGACDKSQCGGMCCAIVSWKSRICRTPMG 61
QY	55 REGECHPGSHK-----VPEFRKRKHHTCPCLPNLLCSRPDGR 93
Db	62 QVGDSCHPITRKSHVANGQERRARRKKRKVEVPWGRMWHHTCPCLPGLACLRTSFR 121
QY	94 YRC 96 :
Db	122 FIC 124
RESULT 13	
Q6V8J7	ID Q6V8J7 PRELIMINARY; PRT; 128 AA.
AC	Q6V8J7; 05-JUL-2004 (TrEMBLrel. 27, Created)
DT	05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT	05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE	Prokineticin 2 beta.
GN	Names=PK2beta;
OS	Rattus norvegicus (Rat.).
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
ON	NCBI_TaxID=10116;
OX	[1]
RC	SEQUENCE FROM N.A.
RP	STRAN=Sprague-Dawley;
RA	Chen J., Sutton S., Kuei C., Wilson S.J., Lovenberg T.W., Liu C.;
RL	Submitted (JUL-2003) to the EMBL/GenBank/DDJB databases.
RL	EMBL; AY348322; AAR06924.1; -
DR	InterPro; IPR009523; Prokineticin.
DR	Pfam; PF06607; Prokineticin; 1.
SEQ	SEQUENCE 128 AA; 14223 MW; 67050CCCIAY7D59466 CRC64;
Query Match 47.1%; Score 277.5; DB 2; Length 128;	
Best Local Similarity 43.5%; Pred. No. 1.6e-20;	
Matches 47; Conservative 16; Mismatches 24; Indels 21; Gaps 1;	
QY	10 MLLLVTVSDCAVITGACERDVQCAGTCCAISSLWLRLRMCTPLGREGECHPGSHK--- 66
Db	17 LLTTPAGDAAVITGACDKSQCGGMCCAIVSWKSRICRTPMGQVGSCHPLTRKSHV 76

QY 67 -----VPPFRKKHHTCPCLPNLLCSRPDPGRYRC 96
Db 77 ANGRQERRAKRRKKEVFFWGRMHHTCPCLPLGLACLRISFNRFIC 124

RESULT 14

Q8JFE6 PRELIMINARY; PRT; 96 AA.
AC Q8JFE6;
DT 01-OCT-2002 (TReMBLrel. 22, Created)
DT 01-OCT-2002 (TReMBLrel. 22, Last sequence update)
DE 05-JUL-2004 (TReMBLrel. 27, Last annotation update)
DE BM8-a protein precursor (Bv8 protein homolog 1).
OS Bombina maxima (Giant fire-bellied toad) (Chinese red belly toad).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.
OX NCBI_TaxID=161274;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin;
RA Chen T., Farragher S., Bjourson A.J., Orr D.F., Rao P., Shaw C.;
RT "Granular gland transcriptomes in stimulated amphibian skin
secretions.";
RL J. Biochem. 371:125-130(2003).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin secretions;
RX MEDLINE=22515712; PubMed=12628381; DOI=10.1016/S1096-4959(02)00294-4;
RA Lai R., Liu H., Lee W.H., Zhang Y.;
RT "Two novel Bv8-like peptides from skin secretions of the toad Bombina
maxima.";
RL Comp. Biochem. Physiol. B, Biochem. Mol. Biol. 134:509-514(2003).
DR EMBL; AJ440230; CAD29340.1; -;
DR EMBL; AF411090; AAN03821.1; -;
DR HSSP; P25687; 1IMT.
DR InterPro; IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
KW SIGNAL.
FT SIGNAL 1 19 Potential.
FT CHAIN 20 96 BM8-a protein.
SQ SEQUENCE 96 AA; 10117 MW; 2269AAC8654B18A6 CRC64;

Query Match 46.6%; Score 274.5; DB 2; Length 96;
Best Local Similarity 49.5%; Pred. No. 2.4e-20;
Matches 48; Conservative 17; Mismatches 31; Indels 1; Gaps 1;

QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
Db 1 MKCFAQIVVLLLVIAFSGHGVITGCDRDAQCGSGTCCCAAGAFSRNIRFCVPLGNNGEC 60

QY 61 HPGSHKVPFFFRKKHHTCPCLPNLLCSRPDPGRYRC 97
Db 61 HPASHKVPYNGKRLSSLCPCNTGLTCSKSGE-KFQCS 96

RESULT 15

Q8JFX8 PRELIMINARY; PRT; 96 AA.
AC Q8JFX8;
DT 01-OCT-2002 (TReMBLrel. 22, Created)
DT 01-OCT-2002 (TReMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TReMBLrel. 26, Last annotation update)
DE BM8-f protein precursor
OS Bombina maxima (Giant fire-bellied toad) (Chinese red belly toad).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.
OX NCBI_TaxID=161274;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin;
RA Chen T., Farragher S., Bjourson A.J., Orr D.F., Rao P., Shaw C.;
RT "Granular gland transcriptomes in stimulated amphibian skin
secretions.";

RL J. Biochem. 371:125-130(2003).
DR EMBL; AJ440235; CAD29345.1; -;
DR HSSP; P25687; 1IMT.
DR InterPro; IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
KW SIGNAL.
FT SIGNAL 1 19 Potential.
FT CHAIN 20 96 BM8-f protein.
SQ SEQUENCE 96 AA; 10058 MW; 2269A070FFE118A6 CRC64;
Query Match 46.4%; Score 273.5; DB 2; Length 96;
Best Local Similarity 50.5%; Pred. No. 3.1e-20;
Matches 49; Conservative 15; Mismatches 32; Indels 1; Gaps 1;
QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
Db 1 MKCFAQIVVLLLVIAFSGHGVITGCDRDAQCGSGTCCCAAGAFSRNIRFCVPLGNNGEC 60
QY 61 HPGSHKVPFFFRKKHHTCPCLPNLLCSRPDPGRYRC 97
Db 61 HPASHKVPDGRKRLSSLCPCNTGLTCSKSGE-KYQCS 96

Search completed: November 1, 2005, 14:52:00
Job time : 179 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 1, 2005, 14:43:20 ; Search time 42 Seconds
(without alignments)
186.623 Million cell updates/sec

Title: US-10-027-603-2
Perfect score: 589
Sequence: 1 MRGATRVSMILLVTVSDCA.....CSRFPDGRYCSMDLKNINF 105

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/1/1aa/5A-COMB.pcp:*
2: /cgn2_6/prodata/1/1aa/5B-COMB.pcp:*
3: /cgn2_6/prodata/1/1aa/6A-COMB.pcp:*
4: /cgn2_6/prodata/1/1aa/6B-COMB.pcp:*
5: /cgn2_6/prodata/1/1aa/PCTUS-COMB.pcp:*
6: /cgn2_6/prodata/1/1aa/backfiles1.pcp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	589	100.0	105	4	US-09-712-529-5
2	589	100.0	105	4	US-10-212-201A-5
3	589	100.0	105	4	US-10-212-355-5
4	577	98.0	105	4	US-09-621-976-5350
5	448	76.1	80	4	US-09-513-999C-4698
6	303	51.4	108	4	US-09-712-529-2
7	303	51.4	108	4	US-10-212-201A-2
8	303	51.4	108	4	US-10-212-355-2
9	107.5	18.3	224	3	US-09-161-241-14
10	102	17.3	186	4	US-09-949-016-7146
11	102	17.3	207	3	US-09-161-241-13
12	102	17.3	259	3	US-09-161-241-12
13	102	17.3	259	4	US-09-949-016-6872
14	101	17.1	259	3	US-09-161-241-11
15	100.5	17.1	350	3	US-09-161-241-9
16	100.5	17.1	350	4	US-09-907-794A-236
17	100.5	17.1	350	4	US-09-905-125A-236
18	100.5	17.1	350	4	US-09-902-775A-236
19	100.5	17.1	350	4	US-09-906-700-236
20	100.5	17.1	350	4	US-09-903-603A-236
21	100.5	17.1	350	4	US-09-904-920A-236
22	100.5	17.1	350	4	US-09-909-064-236
23	100.5	17.1	350	4	US-09-905-381A-236
24	100.5	17.1	350	4	US-09-906-618-236
25	100.5	17.1	375	4	US-09-949-016-7856
26	100.5	17.1	375	4	US-09-949-016-7857
27	100.5	17.1	375	4	US-09-949-016-7858

28	98.5	16.7	349	3	US-09-161-241-8	Sequence 8, Appli
29	97	16.5	266	4	US-09-161-241-10	Sequence 10, Appl
30	97	16.5	266	4	US-09-976-594-1086	Sequence 1086, Ap
31	82	13.9	1342	4	US-09-561-709B-13	Sequence 13, Appl
32	81	13.8	1964	3	US-09-467-997-1	Sequence 1, Appli
33	79	13.4	124	4	US-09-949-016-11293	Sequence 11293, A
34	78.5	13.3	163	2	US-08-219-237B-5	Sequence 5, Appli
35	78.5	13.3	163	3	US-08-477-347-13	Sequence 13, Appl
36	78.5	13.3	163	3	US-08-476-862-4	Sequence 4, Appli
37	78.5	13.3	163	3	US-08-468-560C-5	Sequence 5, Appli
38	78.5	13.3	163	4	US-09-800-909-4	Sequence 4, Appli
39	78.5	13.3	163	4	US-09-800-908-13	Sequence 13, Appl
40	75.5	12.8	1101	4	US-09-561-709B-5	Sequence 5, Appli
41	75.5	12.8	1761	4	US-09-561-709B-1	Sequence 1, Appli
42	75	12.7	546	4	US-09-949-016-10394	Sequence 10394, A
43	75	12.7	651	1	US-08-264-101-2	Sequence 2, Appli
44	75	12.7	651	2	US-08-765-243-2	Sequence 2, Appli
45	75	12.7	651	5	PCT-US95-07295-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-712-529-5
; Sequence 5, Application US/09712529
; Patent No. 6485938
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/09/712,529
; CURRENT FILING DATE: 2000-11-14
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-712-529-5

Query Match	100.0%;	Score 589;	DB 4;	Length 105;
Best Local Similarity	100.0%;	Pred. No. 9.3e-59;		
Matches 105;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MRGATRVSMILLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMTPLGREGEC	60	
Db	1	MRGATRVSMILLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMTPLGREGEC	60	
QY	61	HPGSHKVPFFRKHKHTCTCLPNLCSRPDPDGRYCSMDLKNINF	105	
Db	61	HPGSHKVPFFRKHKHTCTCLPNLCSRPDPDGRYCSMDLKNINF	105	

RESULT 2
US-10-212-201A-5
; Sequence 5, Application US/10212201A
; Patent No. 6756479
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/10/212,201A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: US/09/712,529
; PRIOR FILING DATE: 2000-11-14
; NUMBER OF SEQ ID NOS: 7

polyptide primary data of applicant

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; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 105
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-212-201A-5

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	Query Match	100.0%	Score 589;	DB 4;	Length 105;
	Best Local Similarity	100.0%	Pred. No. 9.3e-59;		
	Matches 105;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MRGATRVISIMLLLVTSDCAVITGACERDVOCGAGTCAISLWLRGLRMCTPLRGREGBEC	60		
Db	1	MRGATRVISIMLLLVTSDCAVITGACERDVOCGAGTCAISLWLRGLRMCTPLRGREGBEC	60		
Qy	61	HPGSHKVPFFFRKRHHKTCPLNLNLSRFPDGRYRCSMDLNKINP	105		
Db	61	HPGSHKVPFFFRKRHHKTCPLNLNLSRFPDGRYRCSMDLNKINP	105		

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RESULT 3
US-10-212-355-5
Sequence 5, Application US/10212355
Patent No. 6828425
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
APPLICANT: Bishop, Paul D.
APPLICANT: Whitmore, Theodore E.
APPLICANT: Thompson, Penny P.
TITLE OF INVENTION: Human Zven Protein
FILE REFERENCE: 99-81
CURRENT APPLICATION NUMBER: US/10/01-08-02
CURRENT FILING DATE: 2002-08-02
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FASTSEQ for Windows Vers 1.0
SEQ ID NO 5
LENGTH: 105
TYPE: PRT
ORGANISM: Homo sapiens
US-10-212-355-5

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	Query Match	100.0%;	Score 589;	DB 4;	Length 105;
	Best Local Similarity	100.0%;	Pred. No. 9.3e-59;		
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Qy	1 MRGATRVSIIMLLVTVS	DCAVITGACERDVOCGAGTCCAISLWLRGLRMCTPLGREGEEC	60		
Db	1 MRGATRVSIIMLLVTVS	DCAVITGACERDVOCGAGTCCAISLWLRGLRMCTPLGREGEEC	60		
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Qy	61 HPGSHKVPFFPKRKHHKTCPCLPNLLCSRFDPGRYRCSDMLKNINF	105			
Db	61 HPGSHKVPFFPKRKHHKTCPCLPNLLCSRFDPGRYRCSDMLKNINF	105			

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RESULT 4
US-09-621-976-5350
; Sequence 5350, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5350
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:

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; NAME/KEY: SIGNAL
; LOCATION: -19..-1
; NAME/KEY: UNSURE
; LOCATION: 38
; OTHER INFORMATION: Xaa = Ala,Gly
US-09-621-976-5350

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[illegible]

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RESULT 5
US-09-513-999C-4698
; Sequence 4698, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59 US2,REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 4698
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -19..-1
; OTHER INFORMATION: score 7.2
; OTHER INFORMATION: seq VSIMILLVTVSDC/AV
US-09-513-999C-4698

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Best Local Similarity 98.8%; Pred.No. 4,7e-43;
Matches 79; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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Qy	1	MRGATRVSLMLLVTVSDCAVITGACERDVQCAGTCCAISLWLRLMCTPLGRGEEC	60
Db	1	MRGATRVSLMLLVTVSDCAVITGACERDVQCAGTCCAISLWLRLMCTPLGRGEEC	60
Qy	61	HPSGHKVPFRKKHHTCPC	80
Db	61	HPSGHKIPFRRGGKHHTCPC	80

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RESULT 6
US-09-712-529-2
; Sequence 2, Application US/09712529
; Patent No. 6485938
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/09/712-529

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; CURRENT FILING DATE: 2000-11-14
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-712-529-2

Query Match      51.4%; Score 303; DB 4; Length 108;
Best Local Similarity 55.2%; Pred. No. 1.2e-26;
Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

QY 10 MLLLVTSQCAVITGACERDVCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPF 69
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 18 LLLTPRAGDAAVITGACDKDSQCGGMCACAVSIWVKSIRICTPMGKLGDSCHPLTRKVPF 77
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

QY 70 FRKRKHHTCPCLPNLLCSRFPDGRYRC 96
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 78 FGRRMHHTCPCLPGLACLRTSFNRFC 104
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

RESULT 7
US-10-212-201A-2
; Sequence 2, Application US/10212201A
; Patent No. 6756479
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/10/212,201A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: US/09/712,529
; PRIOR FILING DATE: 2000-11-14
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-212-201A-2

Query Match      51.4%; Score 303; DB 4; Length 108;
Best Local Similarity 55.2%; Pred. No. 1.2e-26;
Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

QY 10 MLLLVTSQCAVITGACERDVCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPF 69
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 18 LLLTPRAGDAAVITGACDKDSQCGGMCACAVSIWVKSIRICTPMGKLGDSCHPLTRKVPF 77
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

QY 70 FRKRKHHTCPCLPNLLCSRFPDGRYRC 96
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 78 FGRRMHHTCPCLPGLACLRTSFNRFC 104
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

RESULT 8
US-10-212-355-2
; Sequence 2, Application US/10212355
; Patent No. 6828425
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/10/212,355
; CURRENT FILING DATE: 2002-08-02
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 2
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-212-355-2

Query Match      51.4%; Score 303; DB 4; Length 108;
Best Local Similarity 55.2%; Pred. No. 1.2e-26;
Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

QY 10 MLLLVTSQCAVITGACERDVCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPF 69
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 18 LLLTPRAGDAAVITGACDKDSQCGGMCACAVSIWVKSIRICTPMGKLGDSCHPLTRKVPF 77
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

QY 70 FRKRKHHTCPCLPNLLCSRFPDGRYRC 96
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 78 FGRRMHHTCPCLPGLACLRTSFNRFC 104
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

RESULT 9
US-09-161-241-14
; Sequence 14, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Bass, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daguang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Human
US-09-161-241-14

Query Match      18.3%; Score 107.5; DB 3; Length 224;
Best Local Similarity 35.5%; Pred. No. 0.00025;
Matches 22; Conservative 5; Mismatches 32; Indels 3; Gaps 1;

QY 25 ACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPFPRKRKHHTCPCLPNL 84
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 144 SCLRTFDCGPGGCCARHFW---TKICKPVLLSGVCSRRGHKDTAQAPFIQRCDCGPG 200
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

QY 85 LC 86
    ||
Db 201 LC 202
    ||

RESULT 10
US-09-949-016-7146
; Sequence 7146, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7146
```

```

; LENGTH: 186
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7146

Query Match      17.3%; Score 102; DB 4; Length 186;
Best Local Similarity 31.5%; Pred. No. 0.00084;
Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;

Qy   26 CERDVCGAGTCCCAISLWLRGLRMCPTPLGREGEEC-----HPGSHKVPFFPRKRKHHTCPCL 81
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |
Db   110 CLRSSDCIEGFCCARHF---TKICKPVLHQEVCTKQRKGSHGLEIFQR-----CDCA 161
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |

Qy   82 PNLLCSRFDPGRY 94
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |
Db   162 KGLSCKVWKDATY 174
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |

RESULT 11
US-09-161-241-13
; Sequence 13, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Bass, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daquang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Human
US-09-161-241-13

Query Match      17.3%; Score 102; DB 3; Length 207;
Best Local Similarity 31.5%; Pred. No. 0.00095;
Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;

Qy   26 CERDVCGAGTCCCAISLWLRGLRMCPTPLGREGEEC-----HPGSHKVPFFPRKRKHHTCPCL 81
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |
Db   131 CLRSSDCIEGFCCARHF---TKICKPVLHQEVCTKQRKGSHGLEIFQR-----CDCA 182
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |

Qy   82 PNLLCSRFDPGRY 94
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |
Db   183 KGLSCKVWKDATY 195
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |

RESULT 12
US-09-161-241-12
; Sequence 12, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Bass, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daquang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 259
; TYPE: PRT
; ORGANISM: Human
US-09-161-241-12

Query Match      17.1%; Score 101; DB 3; Length 259;
Best Local Similarity 31.5%; Pred. No. 0.0012;
Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;

Qy   26 CERDVCGAGTCCCAISLWLRGLRMCPTPLGREGEEC-----HPGSHKVPFFPRKRKHHTCPCL 81
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |
Db   183 CLRSSDCIEGFCCARHF---TKICKPVLHQEVCTKQRKGSHGLEIFQR-----CDCA 234
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |

Qy   82 PNLLCSRFDPGRY 94
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |
Db   235 KGLSCKVWKDATY 247
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |

RESULT 13
US-09-949-016-6872
; Sequence 6872, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6872
; LENGTH: 259
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6872

Query Match      17.3%; Score 102; DB 4; Length 259;
Best Local Similarity 31.5%; Pred. No. 0.0012;
Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;

Qy   26 CERDVCGAGTCCCAISLWLRGLRMCPTPLGREGEEC-----HPGSHKVPFFPRKRKHHTCPCL 81
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |
Db   183 CLRSSDCIEGFCCARHF---TKICKPVLHQEVCTKQRKGSHGLEIFQR-----CDCA 234
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |

Qy   82 PNLLCSRFDPGRY 94
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |
Db   235 KGLSCKVWKDATY 247
    ||| | | | | | | | | | : | | | | | | | | | | : | | | | | | | | | | : | |

RESULT 14
US-09-161-241-11
; Sequence 11, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Bass, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daquang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 259
; TYPE: PRT
; ORGANISM: Mouse
US-09-161-241-11

```

Best Local Similarity 31.5%; Pred. No. 0.0016;
Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;
QY 26 CERDVQCGAGTCCATSLMLRGLRMCTPLGREGEEC-----HPGSHKVPFPRKKHHTCPCL 81
Db 183 CURSSDCIDGFCARHFW---TKICKPVLHQGEVCTKORKKGSHGLEIFQR-----CDCA 234
QY 82 PNLLCSRFPPDGRY 94
Db 235 KGLSCKVWKDATY 247

RESULT 15
US-09-161-241-9
; Sequence 9, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Bass, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daquang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Human
US-09-161-241-9

Query Match 17.1%; Score 100.5; DB 3; Length 350;
Best Local Similarity 37.7%; Pred. No. 0.0025;
Matches 26; Conservative 3; Mismatches 29; Indels 11; Gaps 4;
QY 26 CERDVQCGAGTCCATSLMLRGL--RMCTPLGREGEECH-PGSHKVPFPRKKH-----HT 77
Db 208 CDNRDCQFGLCCAFQ---RGLLPVCTPLPVEGELCHDPASRLDLITWELEPDGALDR 264
QY 78 CPCLPNLLC 86
Db 265 CPCASGLLC 273

Search completed: November 1, 2005, 14:53:33
Job time : 43 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 1, 2005, 15:02:12 ; Search time 41 Seconds
(without alignments)
201.821 Million cell updates/sec

Title: US-10-027-603-2_COPY_20_105
Perfect score: 498
Sequence: 1 AVITGACERDVCGAGTCCA.....CSRFPDGRVRCMDLKNINF 86

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 29189

Minimum DB seq length: 0
Maximum DB seq length: 86

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 79: *
1: pir1: *
2: pir2: *
3: pir3: *
4: pir4: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	61.5	12.3	83	2 T26545	hypothetical prote
2	58	11.6	46	2 A44794	antimicrobial pept
3	54.5	10.9	57	2 C46654	growth modulatory
4	54	10.8	63	2 S08572	chymotrypsin/elast
5	53.5	10.7	57	2 A46654	growth modulatory
6	53	10.6	47	2 B58319	gamma-zeathionin 2
7	53	10.6	77	2 S29563	endothelin 2 precu
8	52.5	10.5	70	2 A55824	drosomycin precurs
9	52	10.4	77	2 S47158	metallothionein II
10	51.5	10.3	77	2 AF2564	hypothetical prote
11	51	10.2	84	2 JN0469	85K MRK-20 recogni
12	50.5	10.1	47	2 S69145	gamma-thionin SI-a
13	49.5	9.9	61	2 C81079	hypothetical prote
14	49.5	9.9	74	2 S05594	pseudochionin St1
15	49	9.8	62	2 IS1538	metallothionein -
16	49	9.8	65	2 S03858	carboxypeptidase A
17	49	9.8	67	2 PC4008	hypothetical prote
18	49	9.8	72	2 A42325	orf 5' to pheC - p
19	48.5	9.7	54	1 S23075	protein PMP-D1 - m
20	48.5	9.7	79	2 T06381	proteinase inhibit
21	48	9.6	66	2 S59621	metallothionein is
22	48	9.6	67	2 B99830	hypothetical prote
23	48	9.6	74	2 AF3436	metallothionein A
24	47.5	9.5	64	2 A25775	neurotoxin 3 - bar
25	47.5	9.5	65	1 NTSR3C	hypothetical prote
26	46.5	9.3	58	2 AD0841	neurotoxin 1 - bar
27	46.5	9.3	65	1 NTSR1C	holotricin 1 - Hol
28	46	9.2	43	2 JC2554	cellular disintegr
29	46	9.2	44	2 I48942	

RESULT 1

T26545
hypothetical protein YIA5A.2 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C:Accession: T26545
R:Barlow, K.

Submitted to the EMBL Data Library, January 1998
A:Reference number: Z20228
A:Accession: T26545

A>Status: preliminary; translated from GB/EMBL/DBDJ
A:Molecule type: DNA

A:Residues: 1-83 <WIL>

A:Cross-references: UNIPROT:Q9XXT6; EMBL:AL021177; PIDN:CAAL5979.1; GSPDB:GN00021; CESP

A:Experimental source: clone YIA5A

C:Genetics:

A:Gene: CESP:YIA5A.2

A:Map position: 3

A:Introns: 27/2

Query Match 12.3%; Score 61.5; DB 2; Length 83;

Best Local Similarity 37.5%; Pred. No. 13;

Matches 18; Conservative 1; Mismatches 10; Indels 19; Gaps 3;

QY 17 TCCATSLWLRGLRMCTPLGREGECHP-GSHKVPFRKHKHTCCCLP 63

Db 48 TCCCSISL-----GASAHPTRSRPVP----RKQHTAPSPPP 77

RESULT 2

A44794
antimicrobial peptide eNAP-1 - horse (fragment)

C:Species: Equus caballus (domestic horse)

C>Date: 24-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004

C:Accession: A44794; A40833

R:Couto, M.A.; Harwig, S.S.; Cullor, J.S.; Hughes, J.P.; Lehrer, R.I.

Infect. Immun. 60, 3065-3071, 1992

A>Title: Identification of eNAP-1, an antimicrobial peptide from equine neutrophils.

A:Reference number: A44794; MUID:92347972; PMID:1639474

A:Accession: A44794

A>Status: preliminary

A:Molecule type: protein

A:Residues: 1-46 <COU>

A:Cross-references: UNIPROT:P80930

A:Experimental source: neutrophils

A>Note: sequence extracted from NCBI backbone (NCBIP:109730)

C:Superfamily: granulins

Query Match

Best Local Similarity 11.6%; Score 58; DB 2; Length 46;

Matches 17; Conservative 3; Mismatches 23; Indels 8; Gaps 2;

```

A;Residues: 1-57 <BEL>
A;Cross-references: UNIPROT:P81013
A;Experimental source: spleen and head kidney
A;Note: sequence extracted from NCBI backbone (NCBIP:131314)
C;Comment: All twelve Cys residues are involved in disulfide bonds.
C;Keywords: disulfide bond; monomer

Query Match      10.7%; Score 53.5; DB 2; Length 57;
Best Local Similarity 32.5%; Pred. No. 64;
Matches 13; Conservative 5; Mismatches 19; Indels 3;

QY      7 CERDVQCGAGTCCAISLWLRLMCTPLGRGEGCHPGSH 46
          | | | | | | | | | | | | | | | | | |
DB      4 CDAATICPDGTTCLSPY--GWYCCPFMS-GQCRRDGIH 40

RESULT 6
B58319
gamma-zeaxanthin 2 - maize
C;Species: Zea mays (maize)
C;Date: 23-May-1997 #sequence_revision 23-May-1997 #text_change 09-
C;Accession: B58319
R;Castro, M.S.; Pontes, W.; Morhy, L.; Bloch Jr., C.
Protein Pept. Lett. 3, 267-274, 1996
A;Title: Complete amino acid sequences of two gamma-thionins from m
A;Reference number: A58319
A;Accession: B58319
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-47 <CAS>
A;Cross-references: UNIPROT:P81009
A;Experimental source: seed
C;Superfamily: gamma-thionin

Query Match      10.6%; Score 53; DB 2; Length 47;
Best Local Similarity 50.0%; Pred. No. 61;
Matches 8; Conservative 4; Mismatches 4; Indels 0;

QY      53 KRKHHTCPCLPNLCS 68
          | | | | | | | | | | | | | |
DB      6 KSQHSPFCISDLCS 21

RESULT 7
S29563
endothelin 2 precursor - dog (fragment)
C;Species: Canis lupus familiaris (dog)
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-
C;Accession: S29563; S04854
R;Itoh, Y.
submitted to the EMBL Data Library, December 1990
A;Description: Nucleotide sequence of a canine endothelin-2 gene seq
A;Reference number: S29563
A;Accession: S29563
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-77 <ITO>
A;Cross-references: UNIPROT:P12064; EMBL:X57038; NID:g8956; PIDN:CAA
Nucleic Acids Res. 17, 5389, 1989
R;Itoh, Y.; Kimura, C.; Onda, H.; Fujino, M.
A;Title: Canine endothelin-3: cDNA sequence for the mature peptide.
A;Reference number: S04854; MUID:89345104; PMID:2668883
A;Accession: S04854
A;Molecule type: mRNA
A;Residues: 22-77 <IT2>
A;Cross-references: EMBL:X15067
C;Superfamily: endothelin
F;30-56/Product: big endothelin 2 #status predicted <MA2>
F;30-51/Product: endothelin 2 #status predicted <MAT>

Query Match      10.6%; Score 53; DB 2; Length 77;
Best Local Similarity 27.4%; Pred. No. 94;
Matches 17; Conservative 9; Mismatches 30; Indels 6;

```


[illegible]

RESULT 10

A;Experimental source: seeds
A;Note: this is a revision to the sequence from reference S13931
R;Biochem. 223, 135-139, 1994
A;Title: Pseudothionin-St1, a potato peptide active against potato pathogens.
F;BBS Lett. 279, 101-104, 1991
A;Title: A new family of small (5 kDa) protein inhibitors of insect alpha-amylases from
A;Reference number: S13931; MUID:91138737; PMID:11995329
A;Accession: S13931
A;Molecule type: protein
A;Residues: 1-4, 'GK', 7-34, 'R', 36-47 <BLO>
A;Experimental source: seeds
A;Note: this sequence has been revised in reference S69144
C;Superfamily: gamma-thionin
C;Keywords: alpha-amylase inhibitor
F;3-47, 14-36, 20-41, 24-43/Disulfide bonds: #status experimental

Query Match 10.1%; Score 50.5; DB 2; Length 47;
Best Local Similarity 35.7%; Pred. No. 1.1e+02;
Matches 10; Conservative 4; Mismatches 5; Indels 9; Gaps 1;

QY 41 CHPGSHKVPFFRKHKHTCPCLPNLLCS 68
| | | | | : | | : | | | | |
| | | | | : | | : | | | | |
Db 3 CMKGS-----QHSPFCISDLCS 21

RESULT 13
C81079
hypochemical protein NMB1477 [imported] - Neisseria meningitidis (strain MC58 serogroup
C;Species: Neisseria meningitidis
C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 09-Jul-2004
C;Accession: C81079
R;Tetelin, H.; Saunders, N.J.; Heidelberg, J.; Jeffries, A.C.; Nelson, K.E.; Eisen, J.A.
Hickey, E.K.; Haft, D.H.; Salzberg, S.L.; White, O.; Fleischmann, R.D.; Dougherty, B.A.;
ri, H.; Qin, H.; Vamathevan, J.; Gill, J.; Scarlato, V.; Masignani, V.; Pizza, M.
Science 287, 1809-1815, 2000
A;Authors: Grandi, G.; Sun, L.; Smith, H.O.; Fraser, C.M.; Moxon, E.R.; Rappuoli, R.; Ve
A;Title: Complete genome sequence of Neisseria meningitidis serogroup B strain MC58.
A;Reference number: A81000; MUID:20175755; PMID:10710307
A;Accession: C81079
A;Status: Preliminary
A;Molecule type: DNA
A;Residues: 1-61 <TET>
A;Cross-references: UNIPROT:Q9JUQ4; GB:AE002497; GB:AE002098; NID:g7226712; PIDN:AAF4183
A;Experimental source: serogroup B, strain MC58
C;Genetics:
A;Gene: NMB1477

Query Match 9.9%; Score 49.5; DB 2; Length 61;
Best Local Similarity 28.1%; Pred. No. 1.8e+02;
Matches 16; Conservative 4; Mismatches 26; Indels 11; Gaps 3;

QY 9 RDVQCGAGTCCALSL-----WLRLMCTPLGREGECHPGS--HKVPFFRKHKH 57
| | | | | : | | : | | | | |
| | | | | : | | : | | | | |
Db 7 RRIQGLGNKIIRLIKSGRFQLHAITFLKI--GYSCPDGLFHSFLFVKRKQN 60

RESULT 14
S05594
pseudothionin St1 precursor - potato (strain cv. Bintje)
C;Species: Solanum tuberosum (potato)
A;Variety: strain cv. Bintje
C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 09-Jul-2004
C;Accession: S05594; S45659
R;Stiekema, W.J.; Heidekamp, F.; Dirkse, W.G.; van Beckum, J.; de Haan, P.; ten Bosch, C.
Plant Mol. Biol. 11, 255-269, 1988
A;Title: Molecular cloning and analysis of four potato tuber mRNAs.
A;Reference number: S05592
A;Accession: S05594
A;Molecule type: mRNA
A;Residues: 1-74 <STI>
A;Cross-references: UNIPROT:P20346; EMBL:X13180; NID:g21393; PIDN:CAA31577.1; PID:g21394
A;Experimental source: strain cv. Bintje
A;Note: it is unknown whether 1-Met is the initiator or whether translation is initiated
A;Note: the authors designated this protein as proteinase inhibitor (Bowman Birk) homolod

R;Moreno, M.; Segura, A.; Garcia-Olmedo, F.
Eur. J. Biochem. 223, 135-139, 1994
A;Title: Pseudothionin-St1, a potato peptide active against potato pathogens.
A;Reference number: S45659; MUID:94307252; PMID:8033886
A;Accession: S45659
A;Molecule type: protein
A;Residues: 28, 'N', 30-47 <MOR>
A;Experimental source: strain cv. Desiree
C;Superfamily: gamma-thionin
F;1-27/Domain: signal sequence #status predicted <SIG>
F;28-74/Product: pseudothionin St1 #status experimental <MAT>

Query Match 9.9%; Score 49.5; DB 2; Length 74;
Best Local Similarity 26.3%; Pred. No. 2.1e+02;
Matches 15; Conservative 3; Mismatches 18; Indels 21; Gaps 2;

QY 5 GACRDVQCGAGTCCALSLWLRLMCTPLGREGECHPGSHKVPFFRKHKHTCPC 61
| | | | | : | | : | | | | |
| | | | | : | | : | | | | |
Db 39 GPCTRDSNCAS-----VCETERFSGNCHG-----FRRRCFCTKPC 74

RESULT 15
I51538
metallothionein - African clawed frog
C;Species: Xenopus laevis (African clawed frog)
C;Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 09-Jul-2004
C;Accession: I51538
R;Saint-Jacques, E.; Seguin, C.
DNA Cell Biol. 12, 329-340, 1993
A;Title: Cloning and nucleotide sequence of a complementary DNA encoding Xenopus laevis
A;Reference number: I51538; MUID:93263990; PMID:8494609
A;Accession: I51538
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-62 <SAI>
A;Cross-references: UNIPROT:Q05890; GB:M96729; NID:g214585; PIDN:AB559949.1; PID:g214586
C;Superfamily: metallothionein

Query Match 9.8%; Score 49; DB 2; Length 62;
Best Local Similarity 26.7%; Pred. No. 2e+02;
Matches 16; Conservative 4; Mismatches 28; Indels 12; Gaps 3;

QY 7 CERDVQCGAGTCCALIS-----LWLRLMCTPLGREGECHPGSHKVPFFRKHKHTCPC 61
| | | | | : | | : | | | | |
| | | | | : | | : | | | | |
Db 8 CETGASCSCGTCTCSNCKCTCKKSCCCP--AECCKCSQGCHCEKSGK-----CSC 60

Search completed: November 1, 2005, 15:13:04
Job time : 42 secs


```

RESULT 5
ID HEPIC MORCS STANDARD; PRT; 85 AA.
AC P82951.
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Hepcidin precursor.
OS Morone chrysops x Morone saxatilis (White bass x Striped bass).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Percoidae;
OC Moronidae; Morone.
NCBI_TaxID=45352;
RN [1]
RP SEQUENCE FROM N.A., SEQUENCE OF 65-85, TISSUE SPECIFICITY, ANTIBIOTIC
RP ACTIVITY, AND MASS SPECTROMETRY.
RC TISSUE=Gill, and Skin;
RX MEDLINE=21982021; PubMed=11985602;
RA Shike H., Lauth X., Westerman M.E., Ostland V.E., Carlberg J.M.,
RA Van Olst J.C., Shimizu C., Bulet P., Burns J.C.;
RT "Bass hepcidin is a novel antimicrobial peptide induced by bacterial
RT challenge.";
RL Eur. J. Biochem. 269:2232-2237(2002).
CC -!- FUNCTION: Seems to act as a signaling molecule involved in the
CC maintenance of iron homeostasis. Seems to be required in
CC conjunction with HFE to regulate both intestinal iron absorption
CC and iron storage in macrophages (By similarity).
CC -!- FUNCTION: Antimicrobial activity against Gram-negative bacteria
CC such as E.coli.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Predominantly expressed in liver.
CC -!- INDUCTION: By bacterial challenge.
CC -!- MASS SPECTROMETRY: MW=2255.97; METHOD=MALDI; RANGE=65-85;
CC NOTE=Ref.1.
CC -!- SIMILARITY: Belongs to the hepcidin family.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; AF394245; AAM28439.1; -.
DR EMBL; AF394246; AAM28440.1; -.
KW Antibiotic; Direct protein sequencing; Hormone; Signal.
FT SIGNAL 1 24 Potential.
FT PROPEP 25 64
FT PEPTIDE 65 85 Hepcidin.
FT DISULFID 66 72 Potential.
FT DISULFID 69 83 Potential.
FT DISULFID 70 82 Potential.
FT DISULFID 73 79 Potential.
SQ SEQUENCE 85 AA; 9484 MW; 0FEA55CF0A522C84 CRC64;
Query Match 13.3%; Score 66; DB 1; Length 85;
Best Local Similarity 30.0%; Pred. No. 18;
Matches 15; Conservative 8; Mismatches 15; Indels 12; Gaps 2;
QY 33 PLRGREGCHPGSHKVPFRKHKHT-----CPCLPNL-----LCSPF 70
DB 36 PMSNEYQEMFVBSKMPYNNRHRHSSPGGCRFCNCPCNMSGCGVCCRF 85
RESULT 6
CX2X_CONBE
ID CX2X_CONBE STANDARD; PRT; 70 AA.
AC Q9U323;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Hepcidin precursor.
OS Morone chrysops x Morone saxatilis (White bass x Striped bass).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Percoidae;
OC Moronidae; Morone.
NCBI_TaxID=45352;
RN [1]
RP SEQUENCE FROM N.A., SEQUENCE OF 27-43, AND MASS SPECTROMETRY.
RP ACTIVITY, AND MASS SPECTROMETRY.
RC TISSUE=Venom, and Venom duct;
RX PubMed=12547831; DOI=10.1074/jbc.M210200200;
RA Fan C.-X., Chen X.-K., Zhang C., Wang L.-X., Duan K.-L., He L.-L.,
RA Cao Y., Liu S.-Y., Zhong M.-N., Ullens C., Tytgat J., Chen J.-S.,
RA Chi C.-W., Zhou Z.;
RT "A novel conotoxin from Conus betulinus, kappa-Btx, unique in cysteine
RT pattern and in function as a specific BK channel modulator.";
RL J. Biol. Chem. 278:12624-12633(2003).
CC -!- FUNCTION: Kappa-conotoxins bind and inhibit voltage-sensitive
CC potassium channels. Modulator of potassium channels, specifically
CC up-regulates the calcium and voltage-sensitive BK channels, has no
CC effect on single channel conductance, but increases the open
CC probability of BK channels.
CC -!- SUBCELLULAR LOCATION: Secreted (Probable).
CC -!- TISSUE SPECIFICITY: Expressed by the venom duct.
CC -!- PTM: Contains four disulfide bonds.
CC -!- MASS SPECTROMETRY: MW=3569; METHOD=Electrospray; RANGE=27-57;
CC NOTE=Ref.1.
CC -!- SIMILARITY: Belongs to the conotoxin O-superfamily. Kappa-type
CC family.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; AF208661; AAF23167.1; -.
DR EMBL; AF208662; AAF23168.1; -.
KW Amidation; Cleavage on pair of basic residues;
KW Direct protein sequencing; Gamma-carboxyglutamic acid; Hydroxylation;
KW Ionic channel inhibitor; Neurotoxin; Potassium channel inhibitor;
KW Signal; Toxin; Vitamin K.
FT SIGNAL 1 26
FT CHAIN 27 57 Kappa-conotoxin Btx.
FT PROPEP 61 70
FT MOD_RES 30 30 4-carboxyglutamate.
FT MOD_RES 35 35 4-carboxyglutamate.
FT MOD_RES 44 44 4-carboxyglutamate.
FT MOD_RES 53 53 Hydroxyproline.
FT MOD_RES 57 57 Proline amide (G-58 provides amide
FT group).
SQ SEQUENCE 70 AA; 7900 MW; F6575A2B830AD903 CRC64;
Query Match 12.8%; Score 63.5; DB 1; Length 70;
Best Local Similarity 37.3%; Pred. No. 27;
Matches 19; Conservative 1; Mismatches 14; Indels 17; Gaps 4;
QY 7 CERDVQCGAGTCCATSLMLRLMCTPLGREGECC-HPG--SHKVPFFPKR 54
DB 34 CENDSQCLNECC-----W-----GGCGHPCRHPGKSLQLEFFRQR 70
RESULT 7
Q9XXT6
ID Q9XXT6 PRELIMINARY; PRT; 83 AA.
AC Q9XXT6;
DT 01-NOV-1999 (TRENBLrel. 12, Created)
DT 01-NOV-1999 (TRENBLrel. 12, Last sequence update)
DT 01-JUN-2003 (TRENBLrel. 24, Last annotation update)
DE Hypothetical protein YIA5A.2.
GN ORFNames=YIA5A.2;

```

RESULT 9
C64AE9
ID C64AE9
PRELIMINARY;
PRT; 76 AA.


```
RC STRAIN=1;
EX MEDLINE=22735913; PubMed=12835416; DOI=10.1073/pnas.1431443100;
RA Gloeckner F.O., Kube M., Bauer M., Teeling H., Lombardot T.,
RA Ludwig W., Gade D., Beck A., Borzym K., Heitmann K., Rabus R.,
RA Schlesner H., Amann R., Reinhardt R.;
RT "Complete genome sequence of the marine planctomycete Pirellula sp.
RT strain 1.";
RL Proc. Natl. Acad. Sci. U.S.A. 100:8298-8303(2003).
DR EMBL; EX2941138; CAD73029.1; -.
DR InterPro; IPR011477; DUF1584.
DR Pfam; PF07623; PEGSRP; 1.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 76 AA; 8266 MW; B1349FB3B28D98B4 CRC64;

Query Match 11.1%; Score 55.5; DB 2; Length 76;
Best Local Similarity 33.3%; Pred. No. 2e+02;
Matches 13; Conservative 6; Mismatches 15; Indels 5; Gaps 1;

Qy 33 PLGREGECHPGS-----HKVPFFRKHKHHTCPCLPNLL 66
Db 8 PPGKEPERSHPSATSLVHVHVSFKASQHRHSGFLLVNVV 46

RESULT 15
Q96S92 PRELIMINARY; PRT; 80 AA.
AC Q96S92;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Hypothetical protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Li N., Zhang M., Wan T., Zhang W., Cao X.;
RL Submitted (MAY-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY037153; AAK67633.1; -.
KW Hypothetical protein.
SQ SEQUENCE 80 AA; 9172 MW; 4745CB6B383AB10A CRC64;

Query Match 11.1%; Score 55.5; DB 2; Length 80;
Best Local Similarity 29.4%; Pred. No. 2.1e+02;
Matches 20; Conservative 6; Mismatches 29; Indels 13; Gaps 4;

Qy 9 RDVQCGAGTCCAISLWRLRMCTPLGREGECHPGSHKVPFFRKHKHHTCPCLPNLCS 68
Db 19 QSVFCGTSTYCV-----LNTVPPI--EDDHGNSNSHVKIFLPKK--LLECLPK--CS 65

Qy 69 RFPDGRYR 76
Db 66 SLPKERHR 73
```

Search completed: November 1, 2005, 15:12:19
Job time : 176 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 1, 2005, 14:52:51 ; Search time 161 Seconds
(without alignments)
206.593 Million cell updates/sec

Title: US-10-027-603-2_COPY_20_105
Perfect score: 498
Sequence: 1 AVITGACERDVCGAGTCCA.....CSRFPDGRYCRSMDLKNINF 86

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 1117955

Minimum DB seq length: 0
Maximum DB seq length: 86

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database : A_Geneseq_16Dec04:*
- 1: Geneseqp1980s:*
 - 2: Geneseqp1990s:*
 - 3: Geneseqp2000s:*
 - 4: Geneseqp2001s:*
 - 5: Geneseqp2002s:*
 - 6: Geneseqp2003as:*
 - 7: Geneseqp2003bs:*
 - 8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	498	100.0	86	4	AAB70146 Human G p
2	498	100.0	86	5	ABB76801 Human ZAQ
3	498	100.0	86	5	ABJ05338 Human ZAQ
4	498	100.0	86	5	AAO15529 Human phy
5	498	100.0	86	5	ABBO6306 Human G p
6	498	100.0	86	5	AAE24383 Human pro
7	498	100.0	86	7	ADD69104 Human ZAQ
8	498	100.0	86	7	ADO05360 Human pro
9	498	100.0	86	8	ADN43256 Amino aci
10	498	100.0	86	8	ADR24003 Human ZAQ
11	497	99.8	86	4	AAB70145 Human G p
12	497	99.8	86	5	AAO15528 Human phy
13	497	99.8	86	5	ABB06305 Human G p
14	497	99.8	86	7	ADD69103 Human ZAQ
15	497	99.8	86	8	ADR24004 Human ZAQ
16	494	99.2	85	5	AAE24393 Human pro
17	478	96.0	86	5	AAE24394 Human pro
18	473	95.0	86	5	ABB99154 Rat ZAQ p
19	473	95.0	86	5	ABB06959 Rat G pro
20	473	95.0	86	7	ADD69160 Human ZAQ-r
21	473	95.0	86	8	ADN43261 Amino aci
22	469	94.2	86	5	ABB99156 Rat ZAQ p
23	469	94.2	86	5	ABB06961 Rat G pro
24	469	94.2	86	7	ADD69164 Rat ZAQ-r
25	467	93.8	86	5	ABB99155 Rat ZAQ p

26	467	93.8	86	5	ABB06960 Rat G pro
27	467	93.8	86	7	ADD69162 Rat ZAQ-r
28	455	91.4	86	5	ABB99149 Mouse ZAQ
29	455	91.4	86	7	ADD69131 Murine ZA
30	455	91.4	86	7	ADO05361 Mouse pro
31	455	91.4	86	8	ADN43259 Amino aci
32	413	82.9	86	5	AAE24391 Human pro
33	413	82.9	86	7	ADO05372 PK2/PK1 c
34	413	82.9	86	8	ADN43267 Amino aci
35	376	75.5	81	5	AAE24390 Human pro
36	376	75.5	81	7	ADO05371 PK1/PK2 c
37	376	75.5	81	8	ADN43266 Amino aci
38	361	72.5	81	2	AAyl11745 Human 5'
39	357	71.7	80	3	AAG00617 Human sec
40	315	63.3	80	5	ABG94399 Dendroasp
41	315	63.3	80	5	ABB99160 PolyIepis
42	315	63.3	80	5	ABB06310 Dendroasp
43	315	63.3	80	7	ADD69043 Dendroasp
44	315	63.3	80	7	ADJ71812 Black mam
45	315	63.3	80	7	ADO05364 Snake pro

ALIGNMENTS

RESULT 1

AAB70146
ID AAB70146 standard; protein; 86 AA.

AC AAB70146;

XX 29-MAY-2001 (first entry)

XX Human G protein-coupled receptor protein-related sequence #2.

Human; G protein-coupled receptor protein; nootropic; neuroprotective;
hypotensive; orexigenic; antiallergic; antianginal; antimicrobial;
antibacterial; gene therapy; Alzheimer's disease; hypertension; anorexia;
allergy; angina pectoris; infection; MRSA;
multiple resistant Staphylococcus aureus.

OS Homo sapiens.

XX WO200116309-A1.

XX 08-MAR-2001.

XX 24-AUG-2000; 2000WO-JP005685.

XX 27-AUG-1999; 99JP-00241531.

XX 18-JUL-2000; 2000JP-00217474.

XX (TAKE) TAKEDA CHEM IND LTD.

PI Watanabe T, Terao Y, Shintani Y;

WPI; 2001-226684/23.

New human brain-originated guanosine triphosphate protein-coupled
receptor protein, its salt and encoded gene, useful in (gene) diagnosis
and development of preventives and remedies for Alzheimer's disease,
hypertension and anorexia.

XX Example 4; Fig 9; 119pp; Japanese.

CC The present sequence is provided in a specification relating to a protein
or its salt with an amino acid sequence identical or substantially
similar to a fully defined sequence of 393 amino acids as given in the
specification. The protein is useful in gene diagnosis and development of
preventives and remedies for diseases associated with dysfunction of the
protein, e.g. Alzheimer's disease, hypertension, anorexia, allergy,
angina pectoris and infections (e.g. multiple resistant Staphylococcus
aureus). The proteins and DNA encoding the proteins are also useful for

CC the treatment of these diseases by gene therapy

SQ Sequence 86 AA;

Query Match 100.0%; Score 498; DB 4; Length 86;

Best Local Similarity 100.0%; Pred. No. 7.4e-47;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVITGACRDVOCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKHKHTCP 60

DB 1 AVITGACRDVOCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKHKHTCP 60

QY 61 CLPNLLCSRFDPGRYRCSDMLKNINF 86

DB 61 CLPNLLCSRFDPGRYRCSDMLKNINF 86

RESULT 2

ABB76801

ID ABB76801 standard; protein; 86 AA.

XX

AC ABB76801;

XX

DT 19-JUN-2002 (first entry)

XX

DE Human ZAQ-1.

XX

KW Recombinant protein production; drug; reagent; food stuff.

XX

OS Homo sapiens.

XX

PN WO200208417-A1.

XX

PD 31-JAN-2002.

XX

PF 25-JUL-2001; 2001WO-JP006392.

XX

PR 25-JUL-2000; 2000JP-00229064.

XX

PA (TAKE) TAKEDA CHEM IND LTD.

XX

PI Ito T, Tanaka Y, Kondo M;

XX

DR WPI; 2002-179906/23.

XX

XX Production of recombinant proteins in prokaryotes or eukaryotes

PT particularly with target proteins obtainable through gene recombination

PT technique, for use as drugs, reagents, raw materials for industries and

XX feeding stuffs.

XX Disclosure; Page 133; 137pp; Japanese.

CC The present invention relates to a method for producing recombinant

CC proteins. The method comprises preparing a recombinant vector for

CC transforming a host cell before culturing the obtained transformant,

CC assaying expression of the reporter gene and confirming high expression

CC of the reporter gene. The recombinant proteins are useful as drugs,

CC reagents, raw materials for industries and feeding stuffs. Also, the

CC proteins are obtainable on large-scale production. The present sequence

CC was used to illustrate the invention

XX

SQ Sequence 86 AA;

Query Match 100.0%; Score 498; DB 5; Length 86;

Best Local Similarity 100.0%; Pred. No. 7.4e-47;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVITGACRDVOCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKHKHTCP 60

DB 1 AVITGACRDVOCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKHKHTCP 60

QY 61 CLPNLLCSRFDPGRYRCSDMLKNINF 86

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

DB 61 CLPNLLCSRFDPGRYRCSDMLKNINF 86

RESULT 3

ABJ05338

ID ABJ05338 standard; protein; 86 AA.

XX

AC ABJ05338;

XX

DT 08-NOV-2002 (first entry)

XX

DE Human ZAQ protein ligand.

XX

KW Target peptide production; fusion peptide; protease-susceptible linker;

KW parathyroid hormone; PTH; high expression rate;

KW pharmaceutical application.

XX

OS Homo sapiens.

XX

PN WO200236762-A1.

XX

PD 10-MAY-2002.

XX

PF 29-OCT-2001; 2001WO-JP009476.

XX

PR 30-OCT-2000; 2000JP-00331170.

XX

PR 27-JUN-2001; 2001JP-00195522.

XX

PA (TAKE) TAKEDA CHEM IND LTD.

XX

PI Yamada T, Suenaga M;

XX

DR WPI; 2002-417275/44.

XX

DR N-PSDB; ABT06826.

XX

PT Production of target peptide comprises cleavage of fusion peptide with

PT parathyroid hormone peptide for efficient manufacture of target peptide

PT without the need to remove N-terminal methionine.

XX

PS Claim 14; Page 16; 103pp; Japanese.

XX

CC The invention comprises a method of producing a target peptide. The C-

CC terminal end of the target peptide is fused via a protease-susceptible

CC linker to parathyroid hormone (PTH) residues 1-34. The method of the

CC invention is useful for the clean and efficient production of a target

CC peptide at a high expression rate on an industrial scale without the need

CC to remove the N-terminal methionine from the product. The peptides

CC produced by the method of the invention are suitable for pharmaceutical

CC and other uses. The present protein sequence was used in the invention

XX

SQ Sequence 86 AA;

Query Match 100.0%; Score 498; DB 5; Length 86;

Best Local Similarity 100.0%; Pred. No. 7.4e-47;

Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVITGACRDVOCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKHKHTCP 60

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

DB 1 AVITGACRDVOCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKHKHTCP 60

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

QY 61 CLPNLLCSRFDPGRYRCSDMLKNINF 86

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

DB 61 CLPNLLCSRFDPGRYRCSDMLKNINF 86

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

RESULT 4

AAO15529

ID AAO15529 standard; protein; 86 AA.

XX

AC AAO15529;

XX

DT 24-OCT-2002 (first entry)

XX

```
DE XX Human physiologically-active ZAQ ligand-related protein 4.
KW XX Human; ZAQ ligand; physiologically-active ZAQ ligand; digestive disease;
KW XX colitis; diarrhoea.
XX OS Homo sapiens.
XX PN WO200257443-A1.
XX PD 25-JUL-2002.
XX XX
XX PF 21-JAN-2002; 2002WO-JP000378.
XX XX
XX PR 22-JAN-2001; 2001JP-00013027.
XX PR 17-MAY-2001; 2001JP-00147759.
XX XX
XX PA (TAKE ) TAKEDA CHEM IND LTD.
XX PI Yamada T, Suenaga M, Nishimura O;
XX DR WPI; 2002-566801/60.
XX PT Industrial production of physiologically-active ZAQ ligand by expressing
PT in transformant prokaryote and refolding in redox buffer, for use in
PT preventing or treating digestive diseases e.g. colitis and diarrhea.
XX PS Claim 2; Page 79; 93pp; Japanese.
XX CC The invention comprises a method for producing an active peptide that has
CC the same activity as a ZAQ ligand isolated from eukaryotic cells. The
CC method of the invention is useful for the production of a physiologically
CC -active ZAQ ligand for use in preventing or treating digestive diseases
CC (e.g. colitis and diarrhea). The present amino acid sequence represents a
CC human physiologically active ZAQ ligand-related protein
XX SQ Sequence 86 AA;
Query Match 100.0%; Score 498; DB 5; Length 86;
Best Local Similarity 100.0%; Pred. No. 7.4e-47;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVITGACERDVQCGAGTCCCAISLWLRLGLRMCTPLGREGECHPGSHKVPFFRRKRKHTCP 60
DB 1 AVITGACERDVQCGAGTCCCAISLWLRLGLRMCTPLGREGECHPGSHKVPFFRRKRKHTCP 60
QY 61 CLPNLLCSRFPDGRYRCSMDLKNINF 86
DB 61 CLPNLLCSRFPDGRYRCSMDLKNINF 86
RESULT 5
ID ABB06306 standard; protein; 86 AA.
XX AC ABB06306;
XX XX
XX DT 27-MAY-2002 (first entry)
XX XX
XX DE Human G protein-coupled receptor ZAQ ligand protein SEQ ID NO:21.
XX KW G protein-coupled receptor; ZAQ ligand; physiologically active peptide;
XX ZAQ; antidiarrheic; laxative; drug development; digestive disease;
XX colitis; diarrhoea; constipation; poor-absorption syndrome; gene therapy.
XX OS Homo sapiens.
XX XX
XX PN WO200206483-A1.
XX XX
XX PD 24-JAN-2002.
XX XX
XX PF 17-JUL-2001; 2001WO-JP006162.
XX PR 18-JUL-2000; 2000JP-00217442.
PR 02-FEB-2001; 2001JP-00026779.
XX XX (TAKE ) TAKEDA CHEM IND LTD.
XX PA Ohtaki T, Masuda Y, Takateu Y, Watanabe T, Terao Y, Shintani Y;
XX PI Hinuma S;
XX XX
XX DR WPI; 2002-188546/24.
XX DR N-PSDB; ABL49635.
XX XX
XX PT Physiologically-active peptides from cows milk, useful for developing
XX PT drugs to treat ZAQ-mediated diseases, particularly digestive diseases
XX PT like colitis, diarrhea, constipation and poor-absorption syndrome, by
XX XX gene therapy.
XX PS Claim 1; Fig 9; 191pp; Japanese.
XX CC The present invention describes a peptide containing an amino acid
XX CC sequence (I) identical to or substantially similar to that of the
XX CC sequences in ABB06305 or ABB06306, or its salt. (I) has antidiarrheic and
XX CC laxative activities. The peptides and encoding DNAs from the present
XX CC invention are useful for developing drugs to treat digestive diseases
XX CC like colitis, diarrhoea, constipation and poor-absorption syndrome,
XX CC including gene therapy. The physiologically-active cows milk-originated
XX CC peptides are applicable as a specific ligand of brain-originated orphan G
XX CC protein-coupled receptor protein ZAQ. ABL49615 to ABB40659 and ABB06303
XX CC to ABB06315 represent sequences used in the exemplification of the
XX XX present invention
XX SQ Sequence 86 AA;
Query Match 100.0%; Score 498; DB 5; Length 86;
Best Local Similarity 100.0%; Pred. No. 7.4e-47;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVITGACERDVQCGAGTCCCAISLWLRLGLRMCTPLGREGECHPGSHKVPFFRRKRKHTCP 60
DB 1 AVITGACERDVQCGAGTCCCAISLWLRLGLRMCTPLGREGECHPGSHKVPFFRRKRKHTCP 60
QY 61 CLPNLLCSRFPDGRYRCSMDLKNINF 86
DB 61 CLPNLLCSRFPDGRYRCSMDLKNINF 86
RESULT 6
ID AAE24383 standard; protein; 86 AA.
XX AC AAE24383;
XX XX
XX DT 04-OCT-2002 (first entry)
XX XX
XX DE Human prokineticin 1 mature protein.
XX KW Human; prokineticin 1; gastrointestinal motility; intestinal cancer;
XX KW irritable bowel syndrome; gastrointestinal reflux disease; diarrhoea;
XX KW diabetic gastroparesis; chronic constipation; malabsorptive disorder;
XX KW inflammatory bowel disorder; analgesic; infectious disease.
XX OS Homo sapiens.
XX XX
XX PN WO200236625-A2.
XX XX
XX PD 10-MAY-2002.
XX XX
XX PF 01-NOV-2001; 2001WO-US047969.
XX XX
XX PR 03-NOV-2000; 2000US-0245882P.
XX XX
XX PA (REGC ) UNIV CALIFORNIA.
XX PI Zhou Q, Ehlert FJ;
XX XX
```

DR WPI; 2002-479752/51.
DR N-PSDB; AAD39321.
XX
PT New isolated human prokineticin 1 and 2 polypeptides that stimulate
PT gastrointestinal smooth muscle contraction, useful for improving impaired
PT gastrointestinal motility in irritable bowel syndrome, chronic
PT constipation.
XX
XX
PS Claim 1; Page 79-80; 86pp; English.
XX
XX The invention relates to human prokineticin 1 and 2 polypeptides that
CC stimulate gastrointestinal smooth muscle contraction and nucleic acid
CC molecules encoding such polypeptides. Polypeptides of the invention are
CC useful for treating disorders involving impaired gastrointestinal
CC motility. They are useful for stimulating gastrointestinal motility in
CC disorders such as irritable bowel syndrome, diabetic gastroparesis, post-
CC operational ileus, chronic constipation and gastrointestinal reflux
CC disease. The prokineticin antagonists are useful for inhibiting
CC gastrointestinal motility in conditions of diarrhoea, malabsorptive
CC disorders, inflammatory bowel disorders, infectious diseases and
CC intestinal cancers. The antagonists also act as analgesics. The present
CC sequence is human prokineticin 1 mature protein
XX
XX Sequence 86 AA;

Query Match 100.0%; Score 498; DB 5; Length 86;
Best Local Similarity 100.0%; Pred. No. 7.4e-47;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVITGACERDVQCGAGTCCATSLWLRGLRMCTPLGREGECHPGSHKVPFFFRKRKHHTCP 60
Db 1 AVITGACERDVQCGAGTCCATSLWLRGLRMCTPLGREGECHPGSHKVPFFFRKRKHHTCP 60

QY 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86
Db 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86

RESULT 7
ADD69104
ID ADD69104 standard; protein; 86 AA.
XX
AC ADD69104;
XX
DT 15-JAN-2004 (first entry)
XX
DE Human ZAQ-related protein - SEQ ID 82.
XX
XX angiogenesis inhibitor; cytostatic; antiinflammatory; cancer;
KW ovarian disease; diabetic retinopathy; inflammatory; ZAQ; Bv8; I5E;
KW human.
XX
OS Homo sapiens.
XX
PN WO2003066860-A1.
XX
PD 14-AUG-2003.
XX
PF 03-FEB-2003; 2003WO-JP001057.
XX
PR 04-FEB-2002; 2002JP-00027299.
XX
XX (TAKE) TAKEDA CHEM IND LTD.
XX
XX Ohtaki T, Masuda Y, Takatsu Y;
PI
XX WPI; 2003-646310/61.
DR N-PSDB; ADD69110.
XX
XX Angiogenesis inhibitors for treatment and prevention of cancer, ovarian
PT diseases and inflammatory disease.
XX
PS Claim 1; SEQ ID NO 82; 308pp; Japanese.

XX The invention relates to a novel angiogenesis inhibitor comprising a
CC compound that inhibits the activity of an amino acid sequence given in
CC the specification. Angiogenesis-related proteins Bv8, ZAQ and I5E were
CC utilised within the method of the invention. The molecules of the
CC invention demonstrate cytostatic and antiinflammatory activities whilst
CC the method may be useful for treatment and prevention of cancer, ovarian
CC diseases, diabetic retinopathy and inflammatory disease. The current
CC sequence is that of the human ZAQ-related protein of the invention.
XX
XX Sequence 86 AA;

Query Match 100.0%; Score 498; DB 7; Length 86;
Best Local Similarity 100.0%; Pred. No. 7.4e-47;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVITGACERDVQCGAGTCCATSLWLRGLRMCTPLGREGECHPGSHKVPFFFRKRKHHTCP 60
Db 1 AVITGACERDVQCGAGTCCATSLWLRGLRMCTPLGREGECHPGSHKVPFFFRKRKHHTCP 60

QY 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86
Db 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86

RESULT 8
ADO05360
ID ADO05360 standard; protein; 86 AA.

XX
AC ADO05360;
XX
DT 01-JUL-2004 (first entry)
XX
XX Human prokineticin 1 (PK1), SEQ ID NO:9.
XX
XX Human; prokineticin 1; PK1; circadian rhythm; modulation; drug screening;
KW circadian rhythm disorder; non-24-hour sleep-wake syndrome;
KW rapid time-zone change syndrome; jetlag; work-shift syndrome;
KW delayed phase sleep syndrome; advanced sleep phase syndrome;
KW irregular sleep-wake pattern syndrome; decreased amplitude syndrome;
KW seasonal affective disorder; ultradian rhythm; daydreaming; urination;
KW hunger; infaridian rhythm; female sexual receptivity; CNS;
KW central nervous syndrome; PK2 receptor antagonist; PK2 receptor agonist.
XX
OS Homo sapiens.
XX
PN WO2003088904-A2.
XX
PD 30-OCT-2003.
XX
PF 15-APR-2003; 2003WO-US011538.
XX
PR 15-APR-2002; 2002US-0372836P.
XX
XX (REGC) UNIV CALIFORNIA.
XX
XX Zhou Q, Bullock CM;
XX
XX WPI; 2003-854028/79.
XX
XX Screening for compounds for modulating circadian rhythm, for treating
PT seasonal disorders, comprises determining ability of prokineticin-2
PT receptor antagonist or agonist to modulate one or more circadian rhythm
PT function indicia.
XX
XX Disclosure; SEQ ID NO 9; 164pp; English.
XX
XX The invention relates to a method of screening for a compound for its
CC ability to modulate circadian rhythm. The method involved determining the
CC ability of a prokineticin 2 (PK2) receptor agonist or antagonist to
CC modulate one or more indicia or circadian rhythm function. The compound
CC is identified as being a PK2 receptor agonist or antagonist by
CC determining its effect on a predetermined signal such as calcium

CC mobilisation produced by the interaction of PK2 and a receptor selected
 CC from the PK2 receptor (e.g., ADO05353) or the PK1 receptor (e.g.,
 CC ADO05355). The invention is based on the findings that PK2 expression in
 CC the suprachiasmatic nucleus (SCN) oscillates in a circadian fashion, and
 CC that PK2 receptor activation modulates circadian rhythm in rats. The
 CC invention also relates to a method of modulating the circadian rhythm of
 CC an animal by administration of a PK2 receptor antagonist or agonist; a
 CC composition comprising a detectably labelled PK2 and an isolated mouse
 CC PK2 receptor; nucleic acid constructs, vectors and host cells comprising
 CC a PK2 gene promoter (ADO05365-ADO05369) operably linked to a heterologous
 CC nucleotide sequence; use of such constructs to identify modulators of
 CC circadian rhythm and for the light regulated expression of a nucleic acid
 CC molecule in an animal; and oligonucleotides at least 17 bases in length
 CC which are able to hybridise to the human PK2 promoter ADO05365. The
 CC methods of the invention are useful for identifying compounds for
 CC modulating circadian rhythm. Such modulators include PK2 receptor
 CC antagonists which promote sleep, and PK2 receptor agonists which promote
 CC alertness. The circadian rhythm modulators may be used in the treatment
 CC of circadian rhythm disorders such as non-24-hour sleep-wake syndrome,
 CC rapid time-zone change syndrome (jetlag), work-shift syndrome, delayed
 CC pattern syndrome, advanced sleep phase syndrome, irregular sleep-wake
 CC seasonal affective disorder. They may also be used for modulating
 CC biological rhythms with a periodicity of less than 24 hours (ultradian
 CC rhythm) such as daydreaming, urination or hunger, or those with a
 CC periodicity of more than 24 hours (infradian rhythm) such as sexual
 CC receptivity (heat) in female animals. The present sequence represents
 CC human PK1.
 XX
 SQ Sequence 86 AA;

Query Match 100.0%; Score 498; DB 7; Length 86;
 Best Local Similarity 100.0%; Pred. No. 7.4e-47;
 Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVITGACERDVCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
 DB 1 AVITGACERDVCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
 QY 61 CLPNLCSRFPPDGRYRCSDMLKNINF 86
 DB 61 CLPNLCSRFPPDGRYRCSDMLKNINF 86

RESULT 9
 ADN43256
 ID ADN43256 standard; protein; 86 AA.
 XX
 AC ADN43256;

15-JUL-2004 (first entry)

DE Amino acid sequence of human prokineticin 1 (PK1).

XX neurogenesis; prokineticin receptor; PKR; neural stem; progenitor cell;
 KW neural regeneration; Alzheimer's disease; Parkinson's disease;
 KW neurodegenerative disease; prokineticin 1; PK1.

XX Homo sapiens.

XX WO2004032851-A2.

XX 22-APR-2004.

XX 03-OCT-2003; 2003WO-US031626.

XX 04-OCT-2002; 2002US-0416202P.

XX (REGC) UNIV CALIFORNIA.

XX Zhou Q, Cheng MY;

XX WPI; 2004-340794/31.

XX Identifying a compound that modulates neurogenesis comprises contacting a
 PT neural stem or progenitor cell with a compound that modulates
 PT prokineticin receptor signaling and determining its ability to modulate
 PT neurogenesis.

XX Claim 26; Fig 6B; 103pp; English.

XX The specification describes a method for identifying a compound that
 CC modulates neurogenesis. The method comprises providing a compound that
 CC modulates prokineticin receptor (PKR) signaling, contacting a neural stem
 CC or progenitor cell with the compound, and determining the ability of the
 CC compound to modulate neurogenesis. The method is useful for modulating
 CC neurogenesis or for identifying compounds that modulate neurogenesis.
 CC These are used for both ex vivo or in vivo therapeutic applications where
 CC neural regeneration is desirable, such as in Alzheimer's disease.
 CC Parkinson's disease or other debilitating neurodegenerative diseases. The
 CC present sequence represents human prokineticin 1 (PK1), which may be used
 CC in the method of the invention to modulate neurogenesis.

XX Sequence 86 AA;

Query Match 100.0%; Score 498; DB 8; Length 86;
 Best Local Similarity 100.0%; Pred. No. 7.4e-47;
 Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVITGACERDVCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
 DB 1 AVITGACERDVCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60

QY 61 CLPNLCSRFPPDGRYRCSDMLKNINF 86

DB 61 CLPNLCSRFPPDGRYRCSDMLKNINF 86

RESULT 10
 ADR24003
 ID ADR24003 standard; protein; 86 AA.

XX ADR24003;

XX 21-OCT-2004 (first entry)

XX Human ZAQ-1 ligand protein #1.

XX antiangiogenic; antialcoholic; antiarrhythmic; antiarteriosclerotic;
 KW anticonvulsant; antidiabetic; antidiabetic; anti-HIV; antianemic;
 KW antiparkinsonian; cerebroprotective; cytoskeletal; eating disorders;
 KW endocrine; gastrointestinal; gynecological; hypotonic; hypotensive;
 KW neuroleptic; neuroprotective; nootropic; ophthalmological; tranquilizer;
 KW vasotropic; vulnary; monoclonal antibody; human; ZAQ-1; ligand;
 KW hybridoma cell; assay; diagnosis; endometrial cancer; endometriosis;
 KW ovulation disorder; digestive disease; angiogenesis; pregnancy;
 KW eating disorder; sleeping disorder; seasonal depression;
 KW reproductive dysfunction; endocrine disease; senile dementia;
 KW Alzheimer's disease; aging; cerebral circulatory disorder; head trauma;
 KW spinal injury; epilepsy; anxiety; depression; schizophrenia; alcoholism;
 KW Parkinson's disease; hypertension; arteriosclerosis; arrhythmia;
 KW premenstrual disorder syndrome; glaucoma; AIDS; diabetes.

XX Homo sapiens.

XX WO2004065419-A1.

XX 05-AUG-2004.

XX 21-JAN-2004; 2004WO-JP000498.

XX 22-JAN-2003; 2003JP-00014055.

XX (TAKE) TAKEDA CHEM IND LTD.

XX Matsumoto H, Horikoshi Y, Masuda Y, Ohtaki T;

```
XX WPI; 2004-593431/57.
DR
XX New monoclonal antibody having high avidity to human ZAQ1-1 polypeptide,
PT useful for preventing, treating or diagnosing diseases such as
PT endometrial cancer, ovulation disorders, Alzheimer's disease, AIDS,
PT Parkinson's disease and diabetes.
XX
XX Claim 1; SEQ ID NO 1; 64pp; Japanese.
XX
CC The invention relates to a monoclonal antibody (I) having high avidity to
CC human ZAQ1-1 ligand polypeptides, comprising either of two fully defined
CC sequences of 86 amino acids (S1). (I) is ZLI-107a or ZLI-234a produced
CC from hybridoma cells ZLI-107 FERM BP-8256 or ZLI-234 FERM BP-8257. (I) is
CC useful for carrying out assay of the polypeptide containing (S1) which
CC involves reacting (I) with the test-liquid containing the polypeptide or
CC its salt, and measuring the ratio of the polypeptide bound to (I). (I) is
CC useful as a diagnostic or therapeutic agent for diagnosis and/or
CC treatment of diseases such as endometrial cancer, endometriosis or
CC ovulation disorders, digestive diseases, diseases associated with
CC angiogenesis, diseases relating to pregnancy, eating disorder, sleeping
CC disorder, seasonal depression, reproductive dysfunction, endocrine
CC diseases, senile dementia, Alzheimer's disease, various disorders caused
CC by aging, cerebral circulatory disorder, head trauma, spinal injury,
CC epilepsy, anxiety, depression, manic depression, schizophrenia,
CC alcoholism, Parkinson's disease, hypertension, arteriosclerosis,
CC arrhythmia, premenstrual disorder syndrome, glaucoma, AIDS, diabetes,
CC etc. This sequence corresponds to a ZAQ-1 ligand used in the invention.
XX
SQ Sequence 86 AA;
Query Match 100.0%; Score 498; DB 8; Length 86;
Best Local Similarity 100.0%; Pred. No. 7.4e-47;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVITGACERDVQCGAGTCCALSILWLRGLRMCTPLGREGECHPGSHKVPFFFRKHKHTCP 60
Db 1 AVITGACERDVQCGAGTCCALSILWLRGLRMCTPLGREGECHPGSHKVPFFFRKHKHTCP 60
QY 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86
Db 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86
RESULT 11
ID AAB70145
AC AAB70145;
XX
DT 29-MAY-2001 (first entry)
XX
DE Human G protein-coupled receptor protein-related sequence #1.
XX
KW Human; G protein-coupled receptor protein; nootropic; neuroprotective;
KW hypotensive; orexigenic; antiallergic; antianginal; antimicrobial;
KW antibacterial; gene therapy; Alzheimer's disease; hypertension; anorexia;
KW allergy; angina pectoris; infection; MRSA;
KW multiple resistant Staphylococcus aureus.
XX
OS Homo sapiens.
XX
PN WO200116309-A1.
XX
PD 08-MAR-2001.
XX
PF 24-AUG-2000; 2000WO-JP005685.
XX
PR 27-AUG-1999; 99JP-00241531.
XX
PR 18-JUL-2000; 2000JP-00217474.
XX
PA (TAKE ) TAKEDA CHEM IND LTD.
XX
XX The invention comprises a method for producing an active peptide that has
```

```
PI Watanabe T, Terao Y, Shintani Y;
XX WPI; 2001-226684/23.
XX New human brain-originated guanosine triphosphate protein-coupled
PT receptor protein, its salt and encoded gene, useful in (gene) diagnosis
PT and development of preventives and remedies for Alzheimer's disease,
PT hypertension and anorexia.
XX
XX Example 4; Fig 9; 119pp; Japanese.
XX
CC The present sequence is provided in a specification relating to a protein
CC or its salt with an amino acid sequence identical or substantially
CC similar to a fully defined sequence of 393 amino acids as given in the
CC specification. The protein is useful in gene diagnosis and development of
CC preventives and remedies for diseases associated with dysfunction of the
CC protein, e.g. Alzheimer's disease, hypertension, anorexia, allergy,
CC angina pectoris and infections (e.g. multiple resistant Staphylococcus
CC aureus). The proteins and DNA encoding the proteins are also useful for
CC the treatment of these diseases by gene therapy
XX
SQ Sequence 86 AA;
Query Match 99.8%; Score 497; DB 4; Length 86;
Best Local Similarity 98.8%; Pred. No. 9.5e-47;
Matches 85; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVITGACERDVQCGAGTCCALSILWLRGLRMCTPLGREGECHPGSHKVPFFFRKHKHTCP 60
Db 1 AVITGACERDVQCGAGTCCALSILWLRGLRMCTPLGREGECHPGSHKVPFFFRKHKHTCP 60
QY 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86
Db 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86
RESULT 12
ID AAO15528
XX AAO15528 standard; protein; 86 AA.
XX
AC AAO15528;
XX
DT 24-OCT-2002 (first entry)
XX
DE Human physiologically-active ZAQ ligand-related protein 3.
XX
KW Human; ZAQ ligand; physiologically-active ZAQ ligand; digestive disease;
KW colitis; diarrhoea.
XX
OS Homo sapiens.
XX
PN WO200257443-A1.
XX
PD 25-JUL-2002.
XX
PF 21-JAN-2002; 2002WO-JP000378.
XX
PR 22-JAN-2001; 2001JP-00013027.
PR 17-MAY-2001; 2001JP-00147759.
XX
PA (TAKE ) TAKEDA CHEM IND LTD.
XX
PI Yamada T, Suenaga M, Nishimura O;
XX WPI; 2002-566801/60.
XX
PT Industrial production of physiologically-active ZAQ ligand by expressing
PT in transformant prokaryote and refolding in redox buffer, for use in
PT preventing or treating digestive diseases e.g. colitis and diarrhea.
XX
PS Claim 4; Page 78; 93pp; Japanese.
XX
XX The invention comprises a method for producing an active peptide that has
```

CC the same activity as a ZAQ ligand isolated from eukaryotic cells. The
CC method of the invention is useful for the production of a physiologically
CC -active ZAQ ligand for use in preventing or treating digestive diseases
CC (e.g. colitis and diarrhea). The present amino acid sequence represents a
CC human physiologically active ZAQ ligand-related protein
XX

XX Sequence 86 AA;

Query Match 99.8%; Score 497; DB 5; Length 86;
Best Local Similarity 98.8%; Pred. No. 9.5e-47;
Matches 85; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVITGACERDVOCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFPRKRKHTCP 60
DB 1 AVITGACERDVOCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFPRKRKHTCP 60

QY 61 CLPNLLCSRFPDGRYRCSMDLNINF 86
DB 61 CLPNLLCSRFPDGRYRCSMDLNINF 86

RESULT 13

ABB06305
ID ABB06305 standard; protein; 86 AA.

XX
AC ABB06305;

XX 27-MAY-2002 (first entry)

XX Human G protein-coupled receptor ZAQ ligand protein SEQ ID NO:20.

XX G protein-coupled receptor; ZAQ ligand; physiologically active peptide;
KW ZAQ; antidiarrheic; laxative; drug development; digestive disease;
KW colitis; diarrhoea; constipation; poor-absorption syndrome; gene therapy.

XX Homo sapiens.

XX WO200206483-A1.

XX 24-JAN-2002.

XX 17-JUL-2001; 2001WO-JP006162.

XX 18-JUL-2000; 2000JP-00217442.

XX 02-FEB-2001; 2001JP-00026779.

XX (TAKE) TAKEDA CHEM IND LTD.

XX Ohtaki T, Masuda Y, Takatsu Y, Watanabe T, Terao Y, Shintani Y,
PI Hinuma S;

XX WPI; 2002-188546/24.

XX N-PSDB; ABL49634.

XX Physiologically-active peptides from cows milk, useful for developing
PT drugs to treat ZAQ-mediated diseases, particularly digestive diseases
PT like colitis, diarrhea, constipation and poor-absorption syndrome, by
PT gene therapy.

XX Claim 1; Fig 9; 191pp; Japanese.

XX The present invention describes a peptide containing an amino acid
CC sequence (I) identical to or substantially similar to that of the
CC sequences in ABB06305 or ABB06306, or its salt. (I) has antidiarrheic and
CC laxative activities. The peptides and encoding DNAs from the present
CC invention are useful for developing drugs to treat digestive diseases
CC like colitis, diarrhoea, constipation and poor-absorption syndrome,
CC including gene therapy. The physiologically-active cows milk-originated
CC peptides are applicable as a specific ligand of brain-originated orphan G
CC protein-coupled receptor protein ZAQ. ABL49615 to ABB40659 and ABB06303
CC to ABB06315 represent sequences used in the exemplification of the
CC present invention

SQ Sequence 86 AA;

Query Match 99.8%; Score 497; DB 5; Length 86;
Best Local Similarity 98.8%; Pred. No. 9.5e-47;
Matches 85; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVITGACERDVOCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFPRKRKHTCP 60
DB 1 AVITGACERDVOCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFPRKRKHTCP 60

QY 61 CLPNLLCSRFPDGRYRCSMDLNINF 86
DB 61 CLPNLLCSRFPDGRYRCSMDLNINF 86

RESULT 14

ADD69103

ID ADD69103 standard; protein; 86 AA.

XX
AC ADD69103;

XX 15-JAN-2004 (first entry)

XX Human ZAQ-related protein - SEQ ID 81.

XX angiogenesis inhibitor; cytostatic; antiinflammatory; cancer;
KW ovarian disease; diabetic retinopathy; inflammatory; ZAQ; Bv8; 15E;
KW human.

XX Homo sapiens.

XX WO2003066860-A1.

XX 14-AUG-2003.

XX 03-FEB-2003; 2003WO-JP001057.

XX 04-FEB-2002; 2002JP-00027299.

XX (TAKE) TAKEDA CHEM IND LTD.

XX Ohtaki T, Masuda Y, Takatsu Y;

XX WPI; 2003-646310/61.

XX N-PSDB; ADD69109.

XX Angiogenesis inhibitors for treatment and prevention of cancer, ovarian
PT diseases and inflammatory disease.

XX Claim 1; SEQ ID NO 81; 308pp; Japanese.

XX The invention relates to a novel angiogenesis inhibitor comprising a
CC compound that inhibits the activity of an amino acid sequence given in
CC the specification. Angiogenesis-related proteins Bv8, ZAQ and 15E were
CC utilised within the method of the invention. The molecules of the
CC invention demonstrate cytostatic and antiinflammatory activities whilst
CC the method may be useful for treatment and prevention of cancer, ovarian
CC diseases, diabetic retinopathy and inflammatory disease. The current
CC sequence is that of the human ZAQ-related protein of the invention.

XX Sequence 86 AA;

Query Match 99.8%; Score 497; DB 7; Length 86;
Best Local Similarity 98.8%; Pred. No. 9.5e-47;
Matches 85; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVITGACERDVOCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFPRKRKHTCP 60
DB 1 AVITGACERDVOCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFPRKRKHTCP 60

QY 61 CLPNLLCSRFPDGRYRCSMDLNINF 86
DB 61 CLPNLLCSRFPDGRYRCSMDLNINF 86

RESULT 15
ADR24004
ID ADR24004 standard; protein; 86 AA.
XX
XX
AC ADR24004;
XX
XX
DT 21-OCT-2004 (first entry)
XX
XX DE Human ZAQ-1 ligand protein #2.
XX
XX antiangiogenic; antialcoholic; antiarrhythmic; antiarteriosclerotic;
KW anticonvulsant; antidepressant; antidiabetic; anti-HIV; antimanic;
KW antiparkinsonian; cerebroprotective; cyostatic; eating disorders;
KW endocrine; gastrointestinal; gynecological; hypnotic; hypotensive;
KW neuroleptic; neuroprotective; nootropic; ophthalmological; tranquilizer;
KW vasotrophic; vulnary; monoclonal antibody; human; ZAQ-1; ligand;
KW hybridoma cell; assay; diagnosis; endometrial cancer; endometriosis;
KW ovulation disorder; digestive disease; angiogenesis; pregnancy;
KW eating disorder; sleeping disorder; seasonal depression;
KW reproductive dysfunction; endocrine disease; senile dementia;
KW Alzheimer's disease; aging; cerebral circulatory disorder; head trauma;
KW spinal injury; epilepsy; anxiety; depression; schizophrenia; alcoholism;
KW Parkinson's disease; hypertension; arteriosclerosis; arrhythmia;
KW premenstrual disorder syndrome; glaucoma; AIDS; diabetes.
XX
OS Homo sapiens.
XX
XX WO2004065419-A1.
XX
XX 05-AUG-2004.
XX
XX 21-JAN-2004; 2004WO-JP000498.
XX
XX 22-JAN-2003; 2003JP-00014055.
XX
XX (TAKE) TAKEDA CHEM IND LTD.
XX
XX Matsumoto H, Horikoshi Y, Masuda Y, Ohtaki T;
XX
XX WPI; 2004-593431/57.
XX
XX New monoclonal antibody having high avidity to human ZAQ-1 polypeptide,
PT useful for preventing, treating or diagnosing diseases such as
PT endometrial cancer, ovulation disorders, Alzheimer's disease, AIDS,
PT Parkinson's disease and diabetes.
XX
XX Claim 1; SEQ ID NO 2; 64pp; Japanese.
XX
XX The invention relates to a monoclonal antibody (I) having high avidity to
CC human ZAQ-1 ligand polypeptides, comprising either of two fully defined
CC sequences of 86 amino acids (S1). (I) is ZLI-107a or ZLI-234a produced
CC from hybridoma cells ZLI-107 FERM BP-8256 or ZLI-234 FERM BP-8257. (I) is
CC useful for carrying out assay of the polypeptide containing (S1) which
CC involves reacting (I) with the test-liquid containing the polypeptide or
CC its salt, and measuring the ratio of the polypeptide bound to (I). (I) is
CC useful as a diagnostic or therapeutic agent for diagnosis and/or
CC treatment of diseases such as endometrial cancer, endometriosis or
CC ovulation disorders, digestive diseases, diseases associated with
CC angiogenesis, diseases relating to pregnancy, eating disorder, sleeping
CC disorder, seasonal depression, reproductive dysfunction, endocrine
CC diseases, senile dementia, Alzheimer's disease, various disorders caused
CC by aging, cerebral circulatory disorder, head trauma, spinal injury,
CC epilepsy, anxiety, depression, manic depression, schizophrenia,
CC alcoholism, Parkinson's disease, hypertension, arteriosclerosis,
CC arrhythmia, premenstrual disorder syndrome, glaucoma, AIDS, diabetes,
CC etc. This sequence corresponds to a ZAQ-1 ligand used in the invention.
XX
XX Sequence 86 AA;

Query Match 99.8%; Score 497; DB 8; Length 86;
Best Local Similarity 98.8%; Pred. No. 9.5e-47;

	Matches	85;	Conservative	1;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	1	AVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFPRKRKHHTCP	60							
Db	1	AVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGECHPGSHKVPFPRKRKHHTCP	60							
Qy	61	CLPNLLCSRFPDGRYRCSDMLKNINF	86							
Db	61	CLPNLLCSRFPDGRYRCSDMLKNINF	86							

Search completed: November 1, 2005, 15:09:17
Job time : 163 secs

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OM protein - protein search, using sw model

Run on: November 1, 2005, 15:03:42 ; Search time 42 Seconds
(without alignments)
152.853 Million cell updates/sec

Title: US-10-027-603-2_COPY_20_105
Perfect score: 498
Sequence: 1 AVITGACRDVQCGAGTCCA.....CSRFPDGRYRCMDLKNINF 86

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 312316

Minimum DB seq length: 0
Maximum DB seq length: 86

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/1aa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep:*
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6: /cgn2_6/ptodata/1/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	357	71.7	80	4	US-09-513-999C-4698
2	64.5	13.0	77	3	US-08-866-545-2
3	64.5	13.0	77	4	US-09-627-775-2
4	56.5	11.3	79	4	US-10-006-011A-7
5	55.5	11.1	44	1	US-08-050-319B-37
6	55.5	11.1	44	2	US-08-465-982-37
7	55.5	11.1	80	4	US-09-621-976-7198
8	52.5	10.5	69	4	US-09-480-251-6
9	52.5	10.5	70	4	US-09-480-251-6
10	52	10.4	36	5	PCT-US96-01720-2
11	52	10.4	43	4	US-09-894-882-233
12	52	10.4	43	4	US-09-894-882-260
13	52	10.4	43	4	US-09-894-882-266
14	52	10.4	43	4	US-09-894-882-272
15	52	10.4	63	4	US-09-894-882-347
16	51.5	10.3	74	4	US-09-270-767-3440
17	51.5	10.3	74	4	US-09-270-767-49657
18	51	10.2	43	4	US-09-894-882-483
19	51	10.2	43	4	US-09-894-882-484
20	51	10.2	43	4	US-09-894-882-487
21	51	10.2	69	4	US-09-894-882-232
22	51	10.2	69	4	US-09-894-882-259
23	51	10.2	69	4	US-09-894-882-271
24	50.5	10.1	72	4	US-09-270-767-41152
25	50.5	10.1	72	4	US-09-270-767-56368
26	50.5	10.1	77	1	US-08-264-534-1
27	50.5	10.1	77	1	US-08-083-590A-14

28	50.5	10.1	77	1	US-08-465-500-1	Sequence 1, Appli
29	50.5	10.1	77	2	US-08-346-126-1	Sequence 1, Appli
30	50.5	10.1	77	2	US-08-346-128-1	Sequence 1, Appli
31	50.5	10.1	77	3	US-08-532-384-14	Sequence 14, Appli
32	50.5	10.1	77	3	US-08-893-828-1	Sequence 1, Appli
33	50	10.0	43	4	US-09-894-882-269	Sequence 269, App
34	50	10.0	43	4	US-09-894-882-485	Sequence 485, App
35	50	10.0	48	3	US-08-665-259-6	Sequence 6, Appli
36	50	10.0	48	3	US-08-762-500-6	Sequence 5, Appli
37	50	10.0	49	3	US-08-665-259-5	Sequence 5, Appli
38	50	10.0	49	3	US-08-762-500-5	Sequence 5, Appli
39	50	10.0	69	4	US-09-894-882-265	Sequence 265, App
40	50	10.0	70	4	US-09-894-882-353	Sequence 353, App
41	49.5	9.9	47	1	US-08-377-687-28	Sequence 28, Appl
42	49.5	9.9	47	1	US-08-656-318A-13	Sequence 13, Appl
43	49.5	9.9	47	2	US-08-777-192-28	Sequence 28, Appl
44	49.5	9.9	47	2	US-08-956-459-13	Sequence 13, Appl
45	49.5	9.9	47	3	US-08-971-982-28	Sequence 28, Appl

ALIGNMENTS

RESULT 1

US-09-513-999C-4698
; Sequence 4698, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59 US2 REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 4698
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SIGNAL
; LOCATION: -19..-1
; OTHER INFORMATION: score 7.2
; OTHER INFORMATION: seq VSIMLLLVTVSDC/AV

Query Match 71.7%; Score 357; DB 4; Length 80;
Best Local Similarity 98.4%; Pred. No. 1e-34; Mismatches 1; Indels 0; Gaps 0;
Matches 60; Conservative 1;

QY 1 AVITGACRDVQCGAGTCCAISLWLRGRLMCTPLRGEGECPGSHKVPFFRKRKHTCP 60
Db |||||
QY 20 AVITGACRDVQCGAGTCCAISLWLRGRLMCTPLRGEGECPGSHKVPFFRKRKHTCP 79
Db |||||

RESULT 2

US-08-866-545-2
; Sequence 2, Application US/08866545
; Patent No. 6265535
; GENERAL INFORMATION:
; APPLICANT: Greene, Mark I.
; APPLICANT: Murali, Ramachandran
; APPLICANT: Takasaki, Wataru
; TITLE OF INVENTION: PEPTIDES AND PEPTIDE

;; TITLE OF INVENTION: ANALOGUES DESIGNED FROM BINDING SITES OF TUMOR
;; TITLE OF INVENTION: NECROSIS FACTOR RECEPTOR SUPERFAMILY AND THEIR
;; TITLE OF INVENTION: US95
;; NUMBER OF SEQUENCES: 27
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Pennie & Edmonds LLP
;; STREET: 1155 Avenue of the Americas
;; CITY: New York
;; STATE: NY
;; COUNTRY: USA
;; ZIP: 10036-2811
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: Fast-SEQ Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/866,545
;; FILING DATE: 30-MAY-1997
;; CLASSIFICATION: 530
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Coruzzi, Laura A
;; REGISTRATION NUMBER: 30,742
;; REFERENCE/DOCKET NUMBER: 009113-0004-999
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650-493-4935
;; TELEFAX: 650-493-5556
;; TELEX: 66141 PENNIE
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 77 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: No. 6265535e
US-08-866-545-2

Query Match 13.0%; Score 64.5; DB 3; Length 77;
Best Local Similarity 38.3%; Pred. No. 2.5;
Matches 18; Conservative 4; Mismatches 16; Indels 9; Gaps 3;

QY 2 VITGACERD----VQCGAGTCCALSILWLRLMCTPLRGEGEBCHPG 44
DB 32 VETQACTREQNRICTCRPGWYCALSK-QEGCRLCAPL-----RKCRPG 73

RESULT 3

;; Sequence 2, Application US/09627775
;; Patent No. 6682739
;; GENERAL INFORMATION:
;; APPLICANT: Greene, Mark
;; APPLICANT: Murali, Ramachandran
;; APPLICANT: Aoki, Kazuhiro
;; APPLICANT: Baron, Roland
;; TITLE OF INVENTION: Methods of Inhibiting Osteoclastogenesis
;; FILE REFERENCE: UPN3832
;; CURRENT APPLICATION NUMBER: US/09/627,775
;; CURRENT FILING DATE: 2000-07-28
;; PRIOR APPLICATION NUMBER: 60/146,090
;; PRIOR FILING DATE: 1999-07-28
;; NUMBER OF SEQ ID NOS: 29
;; SOFTWARE: Patentin Ver. 2.1
;; SEQ ID NO 2
;; LENGTH: 77
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-627-775-2

Query Match 13.0%; Score 64.5; DB 4; Length 77;

Best Local Similarity 38.3%; Pred. No. 2.5;
Matches 18; Conservative 4; Mismatches 16; Indels 9; Gaps 3;
QY 2 VITGACERD----VQCGAGTCCALSILWLRLMCTPLRGEGEBCHPG 44
DB 32 VETQACTREQNRICTCRPGWYCALSK-QEGCRLCAPL-----RKCRPG 73

RESULT 4

US-10-006-011A-7
;; Sequence 7, Application US/10006011A
;; Patent No. 6821947
;; GENERAL INFORMATION:
;; APPLICANT: Iozzo, Renato V.
;; TITLE OF INVENTION: Endorepellin: methods and compositions
;; TITLE OF INVENTION: for inhibiting angiogenesis
;; FILE REFERENCE: 8321-95
;; CURRENT APPLICATION NUMBER: US/10/006,011A
;; CURRENT FILING DATE: 2001-12-04
;; NUMBER OF SEQ ID NOS: 10
;; SOFTWARE: FastSEQ for Windows Version 4.0
;; SEQ ID NO 7
;; LENGTH: 79
;; TYPE: PRT
;; ORGANISM: human
US-10-006-011A-7

Query Match 11.3%; Score 56.5; DB 4; Length 79;
Best Local Similarity 30.3%; Pred. No. 22;
Matches 23; Conservative 4; Mismatches 36; Indels 13; Gaps 4;

QY 9 RDVCGAGTCCALSILWLRLMCTPLRGEGEBCHPGSHKVPFFRKRKHTCP--CLPNLL 66
DB 2 RDRPCQGGQCHDSSESSVVCV-PAGFTGSRCE-----HSQALHCHPEACGPDAT 51

QY 67 CSRFPDGR-YRCSMDL 81
DB 52 CVNRPDGRGYTCRCHL 67

RESULT 5

US-08-050-319B-37
;; Sequence 37, Application US/08050319B
;; Patent No. 5633145
;; GENERAL INFORMATION:
;; APPLICANT: M.Feldmann, P.W. Gray,
;; APPLICANT: M.J.C. Turner, F.M.Brennan
;; TITLE OF INVENTION: Modified human TNFalpha (Tumor
;; TITLE OF INVENTION: Necrosis Factor alpha) Receptor
;; NUMBER OF SEQUENCES: 57
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Reed & Robbins
;; STREET: 635 Bryant Street
;; CITY: Palo Alto
;; STATE: California
;; COUNTRY: USA
;; ZIP: 94301
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/050,319B
;; FILING DATE: 10-May-1993
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Robbins, Roberta L.
;; REGISTRATION NUMBER: 33,208
;; REFERENCE/DOCKET NUMBER: 5150-0030
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (415) 617-8999
;; TELEFAX: (415) 327-3231

INFORMATION FOR SEQ ID NO: 37;
SEQUENCE CHARACTERISTICS:
LENGTH: 44 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-050-319B-37

Query Match 11.1%; Score 55.5; DB 1; Length 44;
Best Local Similarity 40.6%; Pred. No. 15;
Matches 13; Conservative 3; Mismatches 11; Indels 5; Gaps 2;
QY 13 CGAGTCCCAISLWRLGRLMCTPLGREGECHPG 44
DB 2 CRPGWCALSK-QEGCRLCAPL-----RKCRPG 28

RESULT 6
US-08-465-982-37
Sequence 37, Application US/08465982
Patent No. 5863786
GENERAL INFORMATION:
APPLICANT: M. Feldmann, P. W. Gray,
APPLICANT: M.J.C. Turner, F.M. Brennan
TITLE OF INVENTION: Modified human TNFalpha (Tumor
Necrosis Factor alpha) Receptor
NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:
ADDRESSEE: Reed & Robbins
STREET: 635 Bryant Street
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94301
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,982
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/050,319
FILING DATE: 10-May-1993
ATTORNEY/AGENT INFORMATION:
NAME: Robbins, Roberta L.
REGISTRATION NUMBER: 33,208
REFERENCE/DOCKET NUMBER: 5150-0030
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 617-8999
TELEFAX: (415) 327-3231
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-465-982-37

Query Match 11.1%; Score 55.5; DB 2; Length 44;
Best Local Similarity 40.6%; Pred. No. 15;
Matches 13; Conservative 3; Mismatches 11; Indels 5; Gaps 2;
QY 13 CGAGTCCCAISLWRLGRLMCTPLGREGECHPG 44
DB 2 CRPGWCALSK-QEGCRLCAPL-----RKCRPG 28

RESULT 7

US-09-621-976-7198
Sequence 7198, Application US/09621976
Patent No. 6639063
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Jobert, S.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTs and Encoded Human Proteins.
FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 7198
LENGTH: 80
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: UNSURE
LOCATION: 74
OTHER INFORMATION: Xaa = *, Trp
US-09-621-976-7198

Query Match 11.1%; Score 55.5; DB 4; Length 80;
Best Local Similarity 29.4%; Pred. No. 30;
Matches 20; Conservative 6; Mismatches 29; Indels 13; Gaps 4;
QY 9 RDVQCGAGTCCCAISLWRLGRLMCTPLGREGECHPGSKVFPFRKRKHHHTCPLCNLLCS 68
DB 19 QSVFCGTSTYCV-----LNTVPPI--EDDHGNSNSHVKIFLPKK--LLECLPK--CS 65
QY 69 RFPDGRYR 76
DB 66 SLPKERHR 73

RESULT 8

US-09-480-251-6
Sequence 6, Application US/09480251
Patent No. 6465719
GENERAL INFORMATION:
APPLICANT: DeRose, Richard
APPLICANT: Freysinet, Georges
APPLICANT: Hoffman, Jules
TITLE OF INVENTION: Chimeric Gene Encoding Drosomycin,
Vector Containing It And Production Of Disease-Resistant
Transgenic Plants
TITLE OF INVENTION: Transgenic Plants
FILE REFERENCE: A32889-PCT-USA-A
CURRENT APPLICATION NUMBER: US/09/480,251
CURRENT FILING DATE: 2000-01-11
PRIOR APPLICATION NUMBER: PCT/FR98/01462
PRIOR FILING DATE: 1998-07-08
PRIOR APPLICATION NUMBER: FRANCE 97/09,115
PRIOR FILING DATE: 1997-07-11
PRIOR APPLICATION NUMBER: FRANCE 9709,663
NUMBER OF SEQ ID NOS: 15
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 6
LENGTH: 69
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: The ubiquitin - drosomycin fusion peptide
US-09-480-251-6

Query Match 10.5%; Score 52.5; DB 4; Length 69;
Best Local Similarity 34.0%; Pred. No. 57;
Matches 16; Conservative 4; Mismatches 20; Indels 7; Gaps 3;
QY 2 VITGACERDVQCGAGTC---CAISLWRLG--RMCTPLGREGECHP 43
DB 16 VVLGANEADADCLSGRYKGPFAV--WDNETCRVCKEGRSSGHCSP 60

Matches	15;	Conservative	1;	Mismatches	18;	Indels	8;	Gaps	2;
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QY 4 TGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGECHPGS 45

D_b 3 TGAAGCAACG-GTCCAAC-----CCAGAGCGGTTCCAGA 36

```

RESULT 11
US-09-894-882-233
; Sequence 233, Application US/09894882
; Patent NO. 6767895
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Walker, Craig S.
; APPLICANT: Shetty, Reshma
; APPLICANT: Jimenez, Elsie C.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Watkins, Maren
; APPLICANT: Jones, Greg M.
; APPLICANT: Shen, Greg S.
; TITLE OF INVENTION: I-Superfamily Conotoxins
; FILE REFERENCE: 2314-238
; CURRENT APPLICATION NUMBER: US/09/894,882
; CURRENT FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 60/243,410
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/246,581
; PRIOR FILING DATE: 2000-11-08
; PRIOR APPLICATION NUMBER: US 60/247,714
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/264,256
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 506
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 233
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Conus enaciatus
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(43)
; OTHER INFORMATION: Xaa at residue 7 is Pro or hydroxyproline
; OTHER INFORMATION: is Glu or gamma-carboxy-Glu
US-09-894-882-233

```

```

Query Match      10.4%; Score 52; DB 4; Length 43;
Best Local Similarity 33.3%; Pred. No. 39;
Matches 12; Conservative 2; Mismatches 14; Indels 8; Gaps 1;

QY 4 TGACERDVOCGAGTCCCAISLWLRGLRMCPTPLGREGE 39
      ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 5 TSXCRRSFOCGHIGCC-----FRCNSRCRFGK 32
      ||| ||| ||| ||| ||| ||| ||| |||

```

RESULT 12
US-09-894-882-260
; Sequence 260, Application US/09894882
; Patent No. 6767895
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetrix, Inc.
; APPLICANT: Walker, Craig S.
; APPLICANT: Shetty, Reshma
; APPLICANT: Jimenez, Elsie C.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Watkins, Maren
; APPLICANT: Jones, Robert M.
; APPLICANT: Shen, Greg S.

```

RESULT 9
US-09-480-251-2
; Sequence 2, Application US/09480251
; Patent No. 6465719
; GENERAL INFORMATION:
; APPLICANT: DeRose, Richard
; APPLICANT: Preysinnet, Georges
; APPLICANT: Hoffman, Jules
; TITLE OF INVENTION: Chimeric Gene Encoding Drosomycin,
; TITLE OF INVENTION: Vector Containing It And Production Of Disease-Resistant
; TITLE OF INVENTION: Transgenic Plants
; FILE REFERENCE: A32899-PCT-USA-A
; CURRENT APPLICATION NUMBER: US/09/480,251
; CURRENT FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: PCT/FR98/01462
; PRIOR FILING DATE: 1998-07-08
; PRIOR APPLICATION NUMBER: FRANCE 97/09,115
; PRIOR FILING DATE: 1997-07-11
; PRIOR APPLICATION NUMBER: FRANCE 9709,663
; PRIOR FILING DATE: 1997-07-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-480-251-2

```

	Query Match	10.5%	Score 52.5;	DB 4;	Length 70;
	Best Local Similarity	34.0%	Pred. No. 58;		
	Matches	16;	Conservative	4;	Mismatches 20; Indels 7; Gaps 3;
QY	2	VITGACERDVQCAGTC	--CAISLWLRLG	--RMCTPLGREGBECHP	43
DB	17	VVLGANEADADCLSGRYKGFCAV	--WDNETCRVCKEGRSSGHCSP	61	

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RESULT 10
PCT-US96-01720-2
; Sequence 2, Application PC/TUS9601720
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: MODIFIED-AFFINITY STREPTAVIDIN
; NUMBER OF SEQUENCES: 11
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/01720
; FILING DATE:
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/387,055
; FILING DATE: 09-FEB-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Parmelee, Steven W.
; REGISTRATION NUMBER: 31,990
; REFERENCE/DOCKET NUMBER: 16336-5PC
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US96-01720-2

```

Query Match	10.4%	Score 52; DB 5; Length 36;
Best Local Similarity	35.7%	Pred. No. 32;

; GENERAL INFORMATION:
 ; APPLICANT: University of Utah Research Foundation
 ; APPLICANT: Cognetix, Inc.

; APPLICANT: Walker, Craig S.
; APPLICANT: Shetty, Reshma C.
; APPLICANT: Jimenez, Elsie C.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Watkins, Maren
; APPLICANT: Jones, Robert M.
; APPLICANT: Shen, Greg S.
; TITLE OF INVENTION: I-Superfamily Conotoxins
; FILE REFERENCE: 2314-238
; CURRENT APPLICATION NUMBER: US/09/894,882
; CURRENT FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 60/243,410
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/246,581
; PRIOR FILING DATE: 2000-11-08
; PRIOR APPLICATION NUMBER: US 60/247,714
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/264,256
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 506
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 347
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Conus striolatus
US-09-894-882-347

Query Match 10.4%; Score 52; DB 4; Length 63;
Best Local Similarity 31.9%; Pred. No. 59;
Matches 15; Conservative 5; Mismatches 13; Indels 14; Gaps 3;

QY 2 VITGACERDVQCGAGTCCA-ISLWLRGLRMCTPLGREGECHPGSHK 47
Db 19 VLTNACHMD--CSKWTCCSGICCFYCGRPMC-----PGTRR 52

Search completed: November 1, 2005, 15:14:00
Job time : 51 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 1, 2005, 15:12:34 ; Search time 164 Seconds
(without alignments)
219.218 Million cell updates/sec

Title: US-10-027-603-2_COPY_20_105
Perfect score: 498
Sequence: 1 AVITGACRDRVQCGAGTCCA.....CSRFPDGRYRCMDLKNINF 86

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1865214 seqs, 418043040 residues

Total number of hits satisfying chosen parameters: 770794

Minimum DB seq length: 0
Maximum DB seq length: 86

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PTCTUS_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PTCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10E_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep.*
- 20: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 22: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	498	100.0	86	13	US-10-016-481-3
2	498	100.0	86	14	US-10-323-157-3
3	498	100.0	86	15	US-10-417-426-9
4	498	100.0	86	15	US-10-333-192-21
5	498	100.0	86	16	US-10-680-554-5
6	498	100.0	86	16	US-10-713-567-3
7	498	100.0	86	17	US-10-811-328-3
8	498	100.0	86	17	US-10-912-907-3
9	498	100.0	86	17	US-10-415-724-3
10	498	100.0	86	18	US-10-871-152-22
11	498	100.0	86	18	US-10-503-554A-82

12	498	100.0	86	18	US-10-343-095A-117	Sequence 117, Appl
13	497	99.8	86	15	US-10-333-192-20	Sequence 20, Appl
14	497	99.8	86	15	US-10-503-554A-81	Sequence 81, Appl
15	494	99.2	85	13	US-10-016-481-16	Sequence 16, Appl
16	494	99.2	85	14	US-10-323-157-16	Sequence 16, Appl
17	494	99.2	85	16	US-10-713-567-16	Sequence 16, Appl
18	494	99.2	85	17	US-10-811-328-16	Sequence 16, Appl
19	494	99.2	85	17	US-10-912-907-16	Sequence 16, Appl
20	494	99.2	85	17	US-10-415-724-16	Sequence 16, Appl
21	494	99.2	86	16	US-10-713-567-20	Sequence 20, Appl
22	494	99.2	86	17	US-10-811-328-20	Sequence 20, Appl
23	478	96.0	86	13	US-10-016-481-17	Sequence 17, Appl
24	478	96.0	86	14	US-10-323-157-17	Sequence 17, Appl
25	478	96.0	86	16	US-10-713-567-17	Sequence 17, Appl
26	478	96.0	86	17	US-10-811-328-17	Sequence 17, Appl
27	478	96.0	86	17	US-10-912-907-17	Sequence 17, Appl
28	478	96.0	86	17	US-10-415-724-17	Sequence 17, Appl
29	476	95.6	82	18	US-10-977-113-11	Sequence 11, Appl
30	473	95.0	86	15	US-10-470-951-37	Sequence 37, Appl
31	473	95.0	86	16	US-10-362-504-49	Sequence 49, Appl
32	473	95.0	86	16	US-10-680-554-10	Sequence 10, Appl
33	473	95.0	86	16	US-10-713-567-30	Sequence 30, Appl
34	473	95.0	86	17	US-10-811-328-30	Sequence 30, Appl
35	473	95.0	86	18	US-10-503-554A-138	Sequence 138, Appl
36	469	94.2	86	15	US-10-470-951-41	Sequence 41, Appl
37	469	94.2	86	16	US-10-362-504-53	Sequence 53, Appl
38	469	94.2	86	18	US-10-503-554A-142	Sequence 142, Appl
39	467	93.8	86	15	US-10-470-951-39	Sequence 39, Appl
40	467	93.8	86	16	US-10-362-504-51	Sequence 51, Appl
41	467	93.8	86	18	US-10-503-554A-140	Sequence 140, Appl
42	455	91.4	86	15	US-10-417-426-10	Sequence 10, Appl
43	455	91.4	86	15	US-10-470-951-8	Sequence 8, Appl
44	455	91.4	86	16	US-10-680-554-8	Sequence 8, Appl
45	455	91.4	86	16	US-10-713-567-28	Sequence 28, Appl

ALIGNMENTS

RESULT 1
US-10-016-481-3
; Sequence 3, Application US/10016481
; Publication No. US20020115610A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Qun-Yong
; APPLICANT: Ehler, Frederick
; TITLE OF INVENTION: Prokineticin Polypeptides, Related
; TITLE OF INVENTION: Compositions and Methods
; FILE REFERENCE: P-UC 5016
; CURRENT APPLICATION NUMBER: US/10/016,481
; CURRENT FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,882
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-016-481-3

Query Match	100.0%	Score 498;	DB 13;	Length 86;
Best Local Similarity	100.0%	Pred. No. 2.6e-45;		
Matches	86;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;
Qy	1	AVITGACRDRVQCGAGTCCATSLWLRGLRMCTPLRGEGECHPGSHKVPFFKRKHHTCP	60	
Db	1	AVITGACRDRVQCGAGTCCATSLWLRGLRMCTPLRGEGECHPGSHKVPFFKRKHHTCP	60	
Qy	61	CLPNLLCSRFPDGRYRCMDLKNINF	86	
Db	61	CLPNLLCSRFPDGRYRCMDLKNINF	86	

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; Sequence 3, Application US/10323157
; Publication No. US20030113867A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Qun-Yong
; APPLICANT: Ehlert, Frederick
; TITLE OF INVENTION: Prokineticin Polypeptides, Related
; TITLE OF INVENTION: Compositions and Methods
; FILE REFERENCE: P-UC 5016
; CURRENT APPLICATION NUMBER: US/10/323,157
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: US/10/016,481
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,882
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-323-157-3

Query Match      100.0%; Score 498; DB 14; Length 86;
Best Local Similarity 100.0%; Pred. No. 2.6e-45;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 AVITGACERDVCGAGTCCCAISLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHHTCP 60

Qy 61 CLPNLLCSRFDPGRYRCSMDLKNINF 86
Db 61 CLPNLLCSRFDPGRYRCSMDLKNINF 86

RESULT 3
US-10-417-426-9
; Sequence 9, Application US/10417426
; Publication No. US2003023553A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Qun-Yong
; APPLICANT: Bullock, Clayton M.
; TITLE OF INVENTION: Screening and Therapeutic Methods For
; TITLE OF INVENTION: Treating Circadian Rhythm Disorders
; FILE REFERENCE: P-UC 5773
; CURRENT APPLICATION NUMBER: US/10/417,426
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: US 60/372,836
; PRIOR FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-417-426-9

Query Match      100.0%; Score 498; DB 15; Length 86;
Best Local Similarity 100.0%; Pred. No. 2.6e-45;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 CLPNLLCSRFDPGRYRCSMDLKNINF 86
Db 61 CLPNLLCSRFDPGRYRCSMDLKNINF 86
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RESULT 4
US-10-333-192-21
; Sequence 21, Application US/10333192
; Publication No. US20040077535A1
; GENERAL INFORMATION:
; APPLICANT: OHTAKI, Tetsuya
; APPLICANT: MASUDA, Yasushi
; APPLICANT: TAKATSU, Yoshihiro
; APPLICANT: WATANABE, Takuya
; APPLICANT: TERAOKA, Yasuko
; APPLICANT: SHINTANI, Yasushi
; APPLICANT: HINUMA, Syuji
; TITLE OF INVENTION: Novel Physiologically Active Peptide and Use Thereof
; FILE REFERENCE: 2762USOP
; CURRENT APPLICATION NUMBER: US/10/333,192
; CURRENT FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: JP 2000-217442
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: JP 2001-26779
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: PCT/JP01/06162
; PRIOR FILING DATE: 2001-07-17
; NUMBER OF SEQ ID NOS: 58
; SEQ ID NO 21
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Human
US-10-333-192-21

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Best Local Similarity 100.0%; Pred. No. 2.6e-45;
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Qy 1 AVITGACERDVCGAGTCCCAISLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHHTCP 60
Db 1 AVITGACERDVCGAGTCCCAISLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHHTCP 60

Qy 61 CLPNLLCSRFDPGRYRCSMDLKNINF 86
Db 61 CLPNLLCSRFDPGRYRCSMDLKNINF 86

RESULT 5
US-10-680-554-5
; Sequence 5, Application US/10680554
; Publication No. US20040229291A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Qun-Yong
; APPLICANT: Cheng, Michelle Y.
; TITLE OF INVENTION: Screening and Therapeutic Methods
; TITLE OF INVENTION: Relating to Neurogenesis
; FILE REFERENCE: 66778-356
; CURRENT APPLICATION NUMBER: US/10/680,554
; CURRENT FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: US 60/416,202
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-554-5

Query Match      100.0%; Score 498; DB 16; Length 86;
Best Local Similarity 100.0%; Pred. No. 2.6e-45;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AVITGACERDVCGAGTCCCAISLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHHTCP 60
Db 1 AVITGACERDVCGAGTCCCAISLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHHTCP 60

Qy 61 CLPNLLCSRFDPGRYRCSMDLKNINF 86
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Db 61 CLPILLCRSFPDGRYRCMDLKNINF 86

RESULT 6

US-10-713-567-3
; Sequence 3, Application US/10713567
; Publication NO. US20040235732A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Qun-Yong
; APPLICANT: Ehler, Frederick J.
; TITLE OF INVENTION: Methods For Modulating Angiogenesis
; TITLE OF INVENTION: Using Prokineticin Receptor Antagonists
; FILE REFERENCE: 66778-359
; CURRENT APPLICATION NUMBER: US/10/713,567
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,203
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 10/ 016,481
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: US 60/245,882
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-713-567-3

Query Match 100.0%; Score 498; DB 16; Length 86;
Best Local Similarity 100.0%; Pred. No. 2.6e-45;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 AVITGACERDVCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
QY 61 CLPILLCRSFPDGRYRCMDLKNINF 86
Db 61 CLPILLCRSFPDGRYRCMDLKNINF 86

RESULT 7

US-10-811-328-3
; Sequence 3, Application US/10811328
; Publication NO. US20050026828A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Qun-Yong
; TITLE OF INVENTION: Methods For Modulating Gastric Secretion
; TITLE OF INVENTION: Using Prokineticin Receptor Antagonists
; FILE REFERENCE: 66778-365
; CURRENT APPLICATION NUMBER: US/10/811,328
; CURRENT FILING DATE: 2004-03-25
; PRIOR APPLICATION NUMBER: 60/457,891
; PRIOR FILING DATE: 2003-03-25
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-811-328-3

Query Match 100.0%; Score 498; DB 17; Length 86;
Best Local Similarity 100.0%; Pred. No. 2.6e-45;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVITGACERDVCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
Db 1 AVITGACERDVCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
QY 61 CLPILLCRSFPDGRYRCMDLKNINF 86

Db 61 CLPILLCRSFPDGRYRCMDLKNINF 86

RESULT 8

US-10-912-907-3
; Sequence 3, Application US/10912907
; Publication NO. US20050037464A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Qun-Yong
; APPLICANT: Ehler, Frederick
; TITLE OF INVENTION: Prokineticin Polypeptides, Related
; TITLE OF INVENTION: Compositions and Methods
; FILE REFERENCE: P-UC 5016
; CURRENT APPLICATION NUMBER: US/10/912,907
; CURRENT FILING DATE: 2004-08-06
; PRIOR APPLICATION NUMBER: US/10/016,481
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,882
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-912-907-3

Query Match 100.0%; Score 498; DB 17; Length 86;
Best Local Similarity 100.0%; Pred. No. 2.6e-45;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVITGACERDVCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
Db 1 AVITGACERDVCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
QY 61 CLPILLCRSFPDGRYRCMDLKNINF 86
Db 61 CLPILLCRSFPDGRYRCMDLKNINF 86

RESULT 9

US-10-415-724-3
; Sequence 3, Application US/10415724
; Publication NO. US20050074758A1
; GENERAL INFORMATION:
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Prokineticin Polypeptides, Related
; TITLE OF INVENTION: Compositions and Methods
; FILE REFERENCE: PP-UC 5030
; CURRENT APPLICATION NUMBER: US/10/415,724
; CURRENT FILING DATE: 2003-05-02
; PRIOR APPLICATION NUMBER: 60/245,882
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-415-724-3

Query Match 100.0%; Score 498; DB 17; Length 86;
Best Local Similarity 100.0%; Pred. No. 2.6e-45;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVITGACERDVCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
Db 1 AVITGACERDVCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
QY 61 CLPILLCRSFPDGRYRCMDLKNINF 86
Db 61 CLPILLCRSFPDGRYRCMDLKNINF 86

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RESULT 10
US-10-871-152-22
; Sequence 22, Application US/10871152
; Publication No. US20050170455A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Qun-Yong
; TITLE OF INVENTION: Novel Prokineticin Receptor Isoforms and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 66778-369
; CURRENT APPLICATION NUMBER: US/10/871,152
; CURRENT FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 60/480,239
; PRIOR FILING DATE: 2003-06-20
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-871-152-22

Query Match      100.0%; Score 498; DB 18; Length 86;
Best Local Similarity 100.0%; Pred. No. 2.6e-45;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AVITGACERDVQCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
Db 1 AVITGACERDVQCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHTCP 60

Qy 61 CLPNLLCSRFDPGRYRCMDLKNINF 86
Db 61 CLPNLLCSRFDPGRYRCMDLKNINF 86

RESULT 11
US-10-503-554A-82
; Sequence 82, Application US/10503554A
; Publication No. US20050176632A1
; GENERAL INFORMATION:
; APPLICANT: OHTAKI, TETSUYA
; APPLICANT: MASUDA, YASUSHI
; APPLICANT: TAKATSU, YOSHIHIRO
; TITLE OF INVENTION: ANGIOGENESIS INHIBITORS
; FILE REFERENCE: 61807 (46342)
; CURRENT APPLICATION NUMBER: US/10/503,554A
; CURRENT FILING DATE: 2004-08-04
; PRIOR APPLICATION NUMBER: JP2002-27299
; PRIOR FILING DATE: 2002-02-04
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 82
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-503-554A-82

Query Match      100.0%; Score 498; DB 18; Length 86;
Best Local Similarity 100.0%; Pred. No. 2.6e-45;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AVITGACERDVQCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
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Qy 61 CLPNLLCSRFDPGRYRCMDLKNINF 86
Db 61 CLPNLLCSRFDPGRYRCMDLKNINF 86

RESULT 12
US-10-343-095A-117
; Sequence 117, Application US/10343095A
; Publication No. US20050209447A1
; GENERAL INFORMATION:
; APPLICANT: ITO, Takashi
; APPLICANT: TANAKA, Yoko
; APPLICANT: KONDO, Mitsuyo
; TITLE OF INVENTION: Process for Producing Recombinant Protein
; FILE REFERENCE: 2764USOP
; CURRENT APPLICATION NUMBER: US/10/343,095A
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: PCT/JP01/06392
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: JP 2000-229064
; PRIOR FILING DATE: 2000-07-25
; NUMBER OF SEQ ID NOS: 122
; SEQ ID NO 117
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Human
US-10-343-095A-117

Query Match      100.0%; Score 498; DB 18; Length 86;
Best Local Similarity 100.0%; Pred. No. 2.6e-45;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AVITGACERDVQCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
Db 1 AVITGACERDVQCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHTCP 60

Qy 61 CLPNLLCSRFDPGRYRCMDLKNINF 86
Db 61 CLPNLLCSRFDPGRYRCMDLKNINF 86

RESULT 13
US-10-333-192-20
; Sequence 20, Application US/10333192
; Publication No. US20040077535A1
; GENERAL INFORMATION:
; APPLICANT: OHTAKI, Tetsuya
; APPLICANT: MASUDA, Yasushi
; APPLICANT: TAKATSU, Yoshihiro
; APPLICANT: WATANABE, Takuya
; APPLICANT: TERAQ, Yasuko
; APPLICANT: SHINTANI, Yasushi
; APPLICANT: HINUMA, Syuji
; TITLE OF INVENTION: Novel Physiologically Active Peptide and Use Thereof
; FILE REFERENCE: 2762USOP
; CURRENT APPLICATION NUMBER: US/10/333,192
; CURRENT FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: JP 2000-217442
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: JP 2001-26779
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: PCT/JP01/06162
; PRIOR FILING DATE: 2001-07-17
; NUMBER OF SEQ ID NOS: 58
; SEQ ID NO 20
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Human
US-10-333-192-20

Query Match      99.8%; Score 497; DB 15; Length 86;
Best Local Similarity 98.8%; Pred. No. 3.3e-45;
Matches 85; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AVITGACERDVQCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHTCP 60
Db 1 AVITGACERDVQCGAGTCCATSLWLRLGRLMCTPLGREGECHPGSHKVPFFRKRKHTCP 60

Qy 61 CLPNLLCSRFDPGRYRCMDLKNINF 86
Db 61 CLPNLLCSRFDPGRYRCMDLKNINF 86
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Db 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86

RESULT 14

US-10-503-554A-81
; Sequence 81, Application US/10503554A
; Publication No. US20050176632A1
; GENERAL INFORMATION:
; APPLICANT: OHTAKI, TETSUYA
; APPLICANT: MASUDA, YASUSHI
; APPLICANT: TAKATSU, YOSHIHIRO
; TITLE OF INVENTION: ANGIOGENESIS INHIBITORS
; FILE REFERENCE: 61807 (46342)
; CURRENT APPLICATION NUMBER: US/10/503,554A
; CURRENT FILING DATE: 2004-08-04
; PRIOR APPLICATION NUMBER: JP2002-27299
; PRIOR FILING DATE: 2002-02-04
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 81
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-503-554A-81

Query Match 99.8%; Score 497; DB 18; Length 86;
Best Local Similarity 98.8%; Pred. No. 3.3e-45;
Matches 85; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVITGACERDVQCGAGTCCCAISLWLRLGRLMCTPLRGEGEGCHPGSHKVPFFRKRKHTCP 60

Db 1 AVITGACERDVQCGAGTCCCAISLWLRLGRLMCTPLRGEGEGCHPGSHKVPFFRKRKHTCP 60

QY 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86

Db 61 CLPNLLCSRFPDGRYRCSDMLKNINF 86

RESULT 15

US-10-016-481-16
; Sequence 16, Application US/10016481
; Publication No. US20020115610A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Qun-Yong
; TITLE OF INVENTION: Prokineticin Polypeptides, Related
; TITLE OF INVENTION: Compositions and Methods
; FILE REFERENCE: P-UC 5016
; CURRENT APPLICATION NUMBER: US/10/016,481
; CURRENT FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,882
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 85
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic construct
US-10-016-481-16

Query Match 99.2%; Score 494; DB 13; Length 85;
Best Local Similarity 100.0%; Pred. No. 6.8e-45;
Matches 85; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VITGACERDVQCGAGTCCCAISLWLRLGRLMCTPLRGEGEGCHPGSHKVPFFRKRKHTCP 61

Db 1 VITGACERDVQCGAGTCCCAISLWLRLGRLMCTPLRGEGEGCHPGSHKVPFFRKRKHTCP 60

QY 62 LPNLLCSRFPDGRYRCSDMLKNINF 86

Db 61 LPNLLCSRFPDGRYRCSDMLKNINF 85

Search completed: November 1, 2005, 15:26:42
Job time : 165 secs

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